THE THE THE TECHNOLOGY REVIEW

RELATING TO THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY



NOVEMBER 1 9 2 3

PUBLISHED BY THE ALUMNI ASSOCIATION

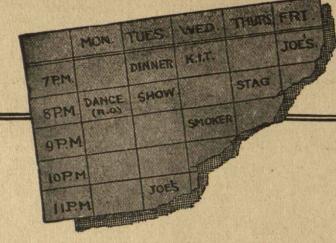
technology review

Published by MIT

This PDF is for your personal, non-commercial use only.

Distribution and use of this material are governed by copyright law.

For non-personal use, or to order multiple copies please email permissions@technologyreview.com.



Does your P.M. schedule read like this?

If your burning ambition is to excel as an allaround society man, you couldn't have planned your evenings better. Such persistence will win out over the indolence of the rank and file, for as the poet says.

Were not attained by sudden flight.
But they while their companions slept

Were toiling upward in the night."

But if you intend to make your mark in engineering or business, don't expect that supremacy on the waxed floor will help when you start hunting a job.

Not that you need swing to the other extreme as a "grind" or a hermit. Let's concede it is all right to minor in sociabilities—but certainly it is only common sense to major in the math and sciences and English that will mean bread and butter to you later on.

Remember this—the harder you work right now in getting a grip on fundamentals, the easier things will come to you when you must solve still bigger problems. And if you take it easy now—well, look out for the law of compensation.

It's up to you. While you've got the chance, seize it, dig in, plug hard. It will pay—in cold cash.

Published in the interest of Electrical Development by an Institution that will be helped by whatever helps the Industry.

Western Electric Company

*Two years ago this advertisement appeared in the Western Electric college paper series. It received so much friendly comment from your faculty and alumni, including some graduates who have since entered our business, that we now reprint it —as a suggestion in this busy month of schedules.



THESE policies represent \$125,000 in endowment insurance payable to M. I. T. at the 25th Reunion of the Class of 1923. The members have insured as individuals and will pay their own premiums as a visible evidence of their loyalty to the Institute. This picture is reproduced in a Tech publication for several reasons:

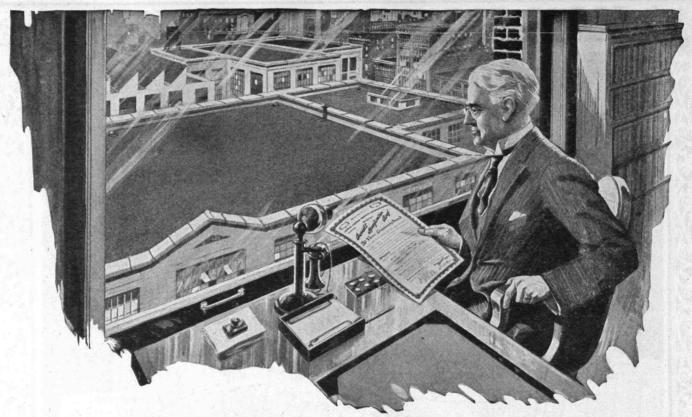
The M. I. T. Alumni Association naturally hopes that the 1923 example will be followed by subsequent graduating classes,—by individual undergraduates who are able and willing to do more individually—by graduates who may take simultaneous action individually or in groups, thus assisting in providing endowments for future needs in a large way—and by individual alumni who will make provision for general funds or for promotion of some special interest.

The Massachusetts Institute of Technology was founded in April, 1861, just a year before the John Hancock Mutual Life Insurance Company was chartered in the Commonwealth of Massachusetts. Both of these institutions have developed in Boston, side by side, and both have become leaders in their respective spheres.

The John Hancock Mutual Life Insurance Company desires to serve Technology to the best of its ability. Information in regard to Technology endowments can be secured from any agent of the John Hancock, Mutual Life Insurance Company or by addressing the Home Office, 197 Clarendon Street, Boston, Massachusetts.

LIFE INSURANCE COMPANY
OF BOSTON, MASSACHUSETTS

Sixty-one Years in Business Largest Fiduciary Institution in New England



A roof that's off your client's mind until 1943 at least

Put yourself in your client's place. His new building is covered with a Barrett Specification Roof. In his hand is a Surety Bond, issued by a great national bonding company—a bond which absolutely guarantees this roof against repair and maintenance expense for 20 years.

Can't you imagine his satisfaction that in drawing your specifications you gave him a Barrett Specification Roof? For The Barrett Company is the only company which backs its roofs with a Surety Bond.

Back of Barrett Specification Roofs stand these four factors:

- 1. The Barrett Specification—a formula for flat (or nearly flat) roof construction drawn up by Barrett technical men with the cooperation of leading architects, engineers and contractors. "The best built-up roof that can be constructed"—this was their aim. Time has proved that they achieved it.
- 2. Standardized materials—The Barrett Specification rigidly prescribes the quality and quantity of materials: the necessary number of layers of Specification Felt, the requisite amount of Barrett Specification Pitch, the top coat of pitch poured (not mopped) and finally the

wearing surface of firmly embedded gravel or slag, so essential to right roof construction.

- 3. The man who lays the roof—Only a man with an earned reputation for good work can qualify to lay a Barrett Specification Roof—can obtain the 20-year bond for the owner of the building.
- 4. The Barrett Inspection Service—Highly trained Barrett technical men are on the job to see that the Barrett Specification is followed in every detail. Only after their O.K. has been received is the Bond issued.

Investing in a definite period of guaranteed service is the modern, efficient way of buying roofs. And that means a Barrett Specification Roof.

There are two types of Barrett Specification Roofs—Type "AA," bonded for 20 years; Type "A," bonded for 10 years. Both are built of the same high-grade materials, the only difference being in the quantity used.

Copies of the Barrett Specification sent free on request.

The Barrett Company

40 RECTOR STREET — NEW YORK CITY
THE BARRETT COMPANY, LIMITED
2021 St. Hubert St., Montreal, Que., Canada

Barrett free fiedtion Roufs Bonded for 20 and 10 Years

TECHNOLOGY REVIEW

RELATING TO THE MASSACHUSETTS
INSTITUTE OF TECHNOLOGY

Published monthly, from November to May inclusive, and in July

Vol. XXVI No. 1 Contents for November, 1923 Cover Design by Kenneth Reid, '18 The Past Months Editorial Comment The Experience of Dying 10 By J. D. MacKenzie, '11 The Plans and Progress on the New Dormitories . 13 By H. W. Brown, '15 By Samuel M. Felton, '73 The Ninety-Ninth Meeting of the Council . 19 DEPARTMENTS Tech Men in the Public Eye . 23 News from the Alumni Clubs . . . News from the Classes 28 Classified Advertising 59 Directory of Sustaining Members 60 H. E. LOBDELL . . Editor E. F. HODGINS . Managing Editor Contributing Editor R. E. ROGERS . R. S. STEVENS . . Advertising Manager PUBLISHED BY THE ALUMNI ASSOCIATION George L. Gilmore, '90, President Arthur T. Hopkins, '97, Secretary

Entered as Second Class Mail Matter at the Post Office at Boston.

Copyright, 1923, by The Technology Review.

TERMS:—\$3.00 a year, in advance; a single copy, 50 cents. To undergraduates of the Massachusetts Institute of Technology \$2.25 per year, in advance, a single copy, 30 cents. Canadian and foreign postage, 50 cents per year additional. Back numbers over three months old, 60 cents each. Instructions for change of address should be sent three weeks before the date they are to go into effect. Both old and new addresses should be given.

for three-quarters of a century we have helped in the selection of securities

Established 1848

Lee, Higginson & Company

NewYork Boston Chicago Higginson & Co. London



And you know what coal costs!



Saving coal is important, but saving human energy is much more important. General Electric Company designs and produces the equipment by which electricity does both. Fifty-one G-E electric locomotives are now doing the same work which 130 coal and oil-burning engines used to do on the 650 mile electrified sections of the Chicago, Milwaukee and St. Paul.

Engineers estimate that the complete electrification of our railroads would save over 100 million tons of coal a year.

GENERAL ELECTRIC

THE THE TECHNOLOGY REVIEW

RELATING TO THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Vol. XXVI

NOVEMBER, 1923

No. 1

The Past Months

THE fifth of Technology's Organized Summer Sessions began the day after graduation. Once again it exceeded itself in diversity of courses offered. The number of students registered was 1,420—

measurably a greater number than in the previous year, when the number was 1,419.

Summer work was given in concentrated form. Subjects which required a term of study in the winter were completed with several weeks of intensive study every day. A course of a year's length could be disposed of in no more weeks than make up one of the regular terms.

These courses were as usual offered for two classes of students: those who wished to pass courses in advance of the time regularly set for them by the curriculum, and those who had been forced by a previous unhappy experience to cover the same ground twice. These two classes of students took courses, the schemes of which were closely patterned after the regular instructional work of the Institute. In addition to these courses, there were given this year certain others having no exact equivalents.

Attendance was not limited to undergraduates of Technology. Registration was
permitted to all those who could show proper qualification for the subjects they intended to pursue. It
was not necessary that a student be working towards
a degree, although work satisfactorily completed could
be counted towards one if the student so wished.

In a letter to the Alumni last spring, Professor
Theodore H. Dillon (who some time ago succeeded
Professor Charles F. Park, '92, as Director of the
Summer Session) wrote as follows: "It is aimed to
make the Institute more serviceable and to take the fullest
advantage of our available
staff and educational facilities.
To do this, it is planned to

To do this, it is planned to encourage the return of men who have for some time been engaged in professional work, for additional short periods of concentrated study. The Institute itself should profit by the exchange of ideas between such men and the members of the Institute staff."

Due in part to this appeal, more than two hundred men, not students of Technology, registered for advance study and research.

If there were any prize awarded to that member of the Institute who achieved, during one month, the most widespread notice in the public prints, the prize for August, 1923 would go to Harry W. Tyler, '84, Ph.D., Walker Professor of Mathematics at the Institute and Head of the Department.

In a statement issued in his capacity as Secretary of the

American Association of University Professors, Professor Tyler referred to the recent enforced resignation of President Alexander Meiklejohn of Amherst and the resignation of several Clark University professors, accompanied by statements protesting against the methods of President Wallace W. Atwood. "These

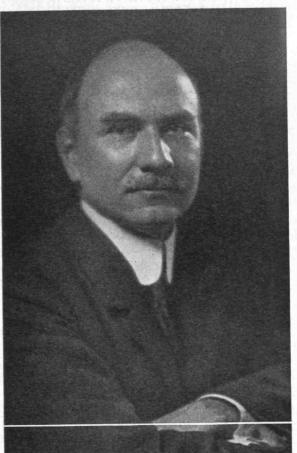


Photo by Pirie Macdonald
PROFESSOR DUGALD C. JACKSON
Head of the Department of Electrical Engineering, who succeeds
Prof. E. F. Miller, '86, as Chairman of the Faculty

Professor; R. G. Tyler, '10,

events," said Professor Tyler, "cannot be regarded as merely local in their significance. Quite regardless of the faults or merits of individuals, is there not reason to infer that the events are merely symptoms of some more fundamental defect in the organization of our higher institutions?" The widespread interest evoked by this statement seems to argue an inclination to answer Yes to Professor Tyler's question.

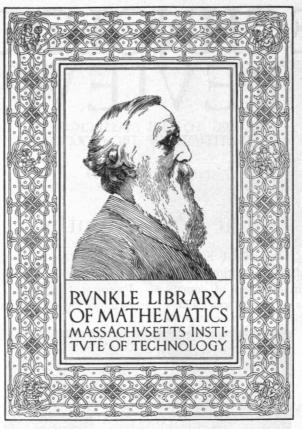
PROFESSOR Davis R. Dewey, Head of the Department of Economics and Statistics, who during the summer taught as an exchange professor to the University of Washington in Seattle, returned some weeks ago to the Institute. Dr. Dewey, as he left the West, left behind him comments which western newspapers reproduced widely under the cacophonic title, "Dewey Lauds West's Brawn."

As Dr. Dewey sees it, it is the West for oarsmen, but the East for organic chemists. "Life here is too pleasant to produce great students, thinkers and leaders," said Dr. Dewey. "I don't see how people do any work out here, surrounded as they are by such inviting natural playgrounds. But," he added to soften the blow, "your outdoor life should produce a wonderful healthy race in the Northwest." And so Dr. Dewey has come back, his attention shifted from biceps to banking.

AFTER negotiations extending over the period of a year, the Institute and Stone & Webster, Inc., have completed arrangements for a fourth Course VI-A Coöperative Option. This Option will deal with the construction of electrical plants for public utility companies. Ten members of the Class of 1925 began work in the new course last June.

The Option was established through the efforts of Russell Robb, '88, Luther R. Nash, '94, N. H. Daniels, '96, and W. B. Hopkins, '12. It is second to the General Electric Option in size.

NE promotion and several new Faculty appointments are announced as effective after the regular announcements of last spring. Associate Professor Robert T. Haslam, '11, of the Department of Chemical Engineering, is raised to the grade of Full



THE RUNKLE BOOK PLATE

Designed as a distinctive mark for volumes in the library of
mathematics. It is the work of Miss Elizabeth Tyler,
daughter of Professor Harry W. Tyler, '84

joins the Faculty as Associate Professor of Sanitary Engineering; John T. Ward of Clark University becomes Assistant Professor of Chemical Engineering; C. P. Burgess will become, on January 1, an Assistant Professor of Aeronautics; Majors L. A. Nickerson and L. E. Goodier join the Department of Military Science and Tactics, with the title of Assistant Professor. In addition, Professor Edward F. Miller, '86, Head of the Department of Mechanical Engineering, becomes Dean of Army men at the Institute and Professor James R. Jack, Head of the Department of Naval Architecture and Marine Engineering, becomes Dean of Navy men.

HARLES T. MAIN, '76, and Dugald C. Jackson, Head of the Department of Electrical Engineering at Technology, were Institute representatives to

the Massachusetts "Power Committee" which in August completed a report of considerable interest to all those concerned with the New England power economies. The Committee was appointed by the Associated Industries of Massachusetts to inquire into future power prospects.

Perhaps the most important statement of this report was that "a saving of 50% of the available energy of coal now being thrown away by our prime movers is possible through the use of exhaust steam as a byproduct for process and heating work, both industrial and domestic."

Mr. Main was Chairman of the Committee, and Professor Jackson was Vice Chairman.

URING the month of October the Alumni Association's new Executive Secretary, Orville B. Denison, '11, began upon his regular monthly schedule of visits to local Technology associations. His visits during this month included the cities of Lawrence, Mass., Portland, Maine, Manchester, N. H., Lowell, Mass. and Taunton, Mass. His schedule for November is as follows: November 5–6, Worcester, Mass.; November 7–8, Springfield, Mass.; November 9–11, Pittsfield, Mass.; November 12–13, Hartford, Conn.; November 14–15, Bridgeport, Conn.; November 16–18, New Haven, Conn.; November 19–20, Fall River, Mass.; and November 21–22, New Bedford, Mass.

HE Navy

Department

has recently permitted public

announcement to be made that a

study of a celluloid

model of the new U.S.S. Shenandoah

(the recently re-

christened ZR-1)



on the Shenandoah

has been carried on during the past ten months in the Photo-elasticity Laboratory of the Institute's Department of Physics. The work has been carried on by Dr. Commander R. D. Weverbacher, S. M., '14. Paul Heymans, Ph. who was Superintendent of Construction D., '22, Assistant Professor of Theoretical Physics, who established the Photoelasticity Laboratory at Technology over a year ago. He was assisted by T. H. Frost, '21. Research Assistant in Photo-elasticity. No definite statement of the results of the year's tests can be made, but Navy Department officials have expressed them-

and the Roma. The model of the Shenandoah was made up of some four thousand pieces of pyralin, a transparent material of camphorated nitro cellulose base, which allows a free passage of a beam of polarized light, and which under conditions of stress can be made to produce varying colors on a screen or photographic plate, by which the characteristics of the stress may be determined.

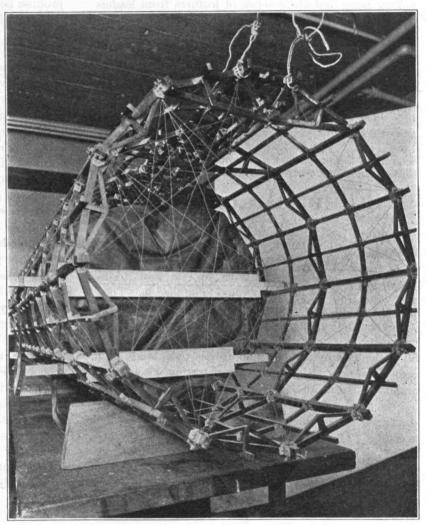
selves as well pleased with the data obtained. It is believed that these tests will be of distinct value in the design of rigid airships for the prevention of disasters similar to those which overtook the ZR-2

The phenomena on which these photoelastic tests are based have been known for some time, but have been employed only recently to settle problems of structural design which cannot be mathematically determined.

This investigation, without doubt the most extensive one ever attempted, is only one of a large series of tests now being carried on at the Institute. The Institute's Laboratory of Photo-elasticity is unique in this hemisphere. The Shenandoah was planned by Charles F. Burgess, and Starr Truscott, '07.

ND now General Gouraud has come to our city. Now also, he has gone. Between the coming and going there elapsed only a day or so. Yet that day or so would have been sufficient, one might think, for General Gouraud to have visited Technology. He visited Harvard. Why, wondered some inquisitive souls, was Technology slighted. Surely we should have demanded little. If General Gouraud had come, he need only have placed a wreath on the door knob of Room 2-275, and said in a repressed tremolo, "Robert Rogers, we are here." No one at Technology demanded a ceremony more than that. We had none such; we had none at all. Now, what is the moral of that?

EGRETFULLY, the Review records the death of Nathan Newell Denison, father of Orville B. Denison, '11, Executive Secretary of the Alumni Association. His death occurred at his home in Framingham on October 3, in the fifty-ninth year of his age. He was a native of Norway, Maine, and had for some years been Assistant Cashier of the Commonwealth Trust Company. He is survived by his widow, as well as by his son.



THE PYRALIN MODEL OF THE SHENANDOAH Four thousand pieces went to make up this section in the Institute's unique Photo-elasticity Laboratory

ERARD SWOPE, '95, President of the General Electric Company, comes to the Institute on November 9 to deliver the first of the recently established Aldred Lectures. Twelve lectures representing all branches of industry, given by men who have achieved a high prominence in them, will be given for this year, and will be open to Faculty, Seniors, Graduate Students of the Institute, and a limited number of outsiders.

Mr. J. E. Aldred, a prominent banker, who carried to a successful conclusion the immense hydro-electric development at Shawinigan Falls on the St. Maurice River in Canada, is responsible for the idea behind these lectures. It is his belief that a definite contribution to the training of an engineer will be made "if the proposed lectures give the student an opportunity of coming in contact with men who have made an outstanding success in their various lines of undertaking."

The establishment of these lectures should do much adequately to fill the field now exploited in a small way by the professional societies, and by the calling of an occasional student convocation. Authorities at Technology hope that these series of lectures from leaders in industry will help to crystallize the ideas of young men about to graduate on what may be their best choice of a career.

The article on page 17 in this issue of the Review is a reprint of an article which appeared in a recent issue of System, The Magazine of Business, under a different title. The drawing on page 18 by John T. Cronin, '17, first appeared in the Sunday Magazine Section of the New York Times. The Review gratefully acknowledges its indebtedness to the courtesy of the holders of these original copyrights.

Editorial Comment

How Many Is Enough? One fall, some four years ago, when the war was newly over, Technology, having made what it thought were adequate preparations for its first term, went to the door and unlatched it. That

straining door swung back with a crash that sprung its hinges, and in there poured such a stream of young humanity as clogged the corridors (thought spacious), filled the classrooms and laboratories twice over, and came close to reducing the registration system to original chaos again.

The administrative officers put extra clerks and stenographers on their rolls, and paid large bills for overtime. Department heads went frantic in the attempt to find competent instructors, who would, on twenty-four hours' notice begin teaching some of this horde. Professors of Geology obliged by lecturing in Chemistry for a while. Everyone said, "Isn't this terrible?"

But actually, it was not so terrible. Actually, Technology found it rather fun. The new buildings were

designed to house only 2,500 students, and, thought most, It will be ten years before ever their capacity is questioned. Yet after no more than three years, here we were with almost a thousand surplus students on our hands. We were popular, so we thought, and efficient, too, for we managed with extraordinarily little difficulty the task of caring for all that were left on the doorstep. We kept on saying that It was Terrible, but in our hearts we were happy. Expressing pain, we felt pride.

The country over, universities and technical schools went through the same experience. They carried their overloads, but at the conventional low efficiency. They liked, perhaps, the atmosphere of bustle and importance that always comes of trying to do too much. But they, too, pretended that the influx was terrible, and they raised the cry, "Too many men are going to college."

It seemed likely. It still does. If the scholastic lower half of students now in college classrooms were tomorrow sent notes, regretful but staunch, by their registrars, requesting that they give up the attempt and go back to the store, would many careers of true promise be denied a fulfillment? It seems improbable. And yet, for all we know, it may not be. Perhaps, some five hundred years in the future, a shrewd historian may be able to look back upon this fermenting age of ours and form a judgment with authority. We who are living in it can scarcely be so fortunate in our pronouncements. We do not know, even now, just what college does for a young man, anyway. We never know when some unfortunate member of the classroom's submerged tenth is going to wake up, hear for the first time something his professor is saying, and relapse into slumber again, nursing an idea, thus born, which will grow up to save the world. Since this may never have happened, or may always be happening, for all we know, perhaps we should have been a bit more humble, less didactic, when we told everyone that too many young men wanted to go to college.

The joke now is that our young men are beginning to believe us. They still flock to the door through which they may enter, to grow in wisdom, but they do not flock in such numbers, nor, perhaps, in such confidence. Economic conditions may be largely responsible, but we, ourselves, have helped. Technical schools are sensitive barometers, and since Technology's registration is, this year, about 2,950, one may observe that the glass is falling. Other engineering institutions record drops, proportionate or greater. Statisticians set the enrollment reduction, the countrywide at 8%, this year. Some universities show increases, but more of them seem static, and possessed of the opinion that the upward surge is over, for a while.

Now, if the situation four years ago was terrible, this one surely is admirable. Is it? The opinion may scarcely be called unanimous.

The lack of unanimity arises, perhaps, because although the educational and the financial administrators of American universities are not antagonistic, they are at their happiest under different conditions. The condition of most teaching appeals to the educator. To the bursar, the attractive condition is that of least deficit.

Unfortunately, these conditions are not concomitant. The more students, the more revenue, but the less intellectual breathing space per student. This unhappy truth has made for a certain insincerity in the official speech of many large educational institutions. When students are many, we say they are too many properly to be taught, and when they are few, we say nothing for publication, but observe (sotto voce) that the Alumni "ought to get busy and boost the school in their home towns." No doubt they should. But is it unreasonable to argue that the boosting should be for scholarship, not numbers?

With an enrollment this year of 2,950, and the memory of 3,500 three years ago, Technology is faced with a remarkable opportunity for proving whether or not too many men actually have been going to college. We are still teaching more students than our buildings are designed to hold. Measuring the drop in registration, multiplying it by the annual tuition rate, and bursting into tears is not only futile, but wicked. Our income is no measure of the good we do. It is the outgo that counts: the outgo of young men trained carefully, wisely and thoroughly. Once we said that fewer numbers could be trained, with more of that care, wisdom and thoroughness. Here are our fewer students, and here is our elder vow, that, if we had them, we should teach them better. Looks almost prearranged, doesn't it?

Words that endowment is as good as inspiration.

and This idea is to be noted nowhere so much
as in the activities of the American Association) of Committees Empowered to Conduct Competitions to Secure New Alma Mater Songs for Colleges.

There *must* be an Association. During the last few years; colleges of the country have shown an avidity for new pieces to memorize that can have sprung only from the promotion work of one close-knit organization.

Yale has been a recent seat of its activity. A Yale sub-committee of the supposedly national organization has offered \$1,000 to anyone who will take "Bright College Years" and separate the music of "Die Wacht Am Rhine" from it. Active chairmen at Columbia and Ohio State have been stirring up similar campaigns. The reasons for the dissatisfactions of these two institutions with their existing lyrics and music, we do not at the moment know. The reasons do not matter greatly. An offer of \$1,000 for anything new will immediately produce discontent with anything old.

All this, during the previous academic year. A report, still echoing from Harvard as these words are written, indicates that perhaps this year's campaign will be conducted along different lines. One alumnus has objected violently to "Johnny Harvard" (the song) because of its insistence upon the pleasures of taking a drink, and the inordinately multiplied pleasures of taking several drinks. Whether the alumnus spoke because to him this advice was subversive, or because merely it was tantalizing, need not concern us. What does concern us is the possibility that a Harvard committee will now organize and elect officers for the purpose of suggesting that a substitute be written. We watch, with interest, for dispatches.

But what of our own situation? Two years ago, a Technology Committee offered a prize of \$200 for award each year during the next four years to the author who wrote the best Alma Mater song during one year. At the end of this time the Committee would proceed to choose one of these four offerings as the Song of Songs. By fiat the Committee would then set up its choice as the Alma Mater song of Technology vice the Stein Song whose crime it is to make no mention of Technology in words.

We are now half-way through with this contest. We have two of the eventual four songs, and although they are both, in some respects, admirable, they do not possess (for the very reason that they were written in deliberation) the genuinely inspired quality of the Stein Song. Whether, by the time the contest is ended, we shall have seen this lack remedied, we cannot determine now.

But we can at least suggest that there is good reason why the Massachusetts Institute of Technology has for all its history had never an Alma Mater song which included the mention of its own name. Consider the designations under which we go. First, there is the full, official title, at which W. S. Gilbert himself would be aghast to fit into any metrical form. Then there is "M. I. T.," "Technology," "the Institute," "the 'Stute." We defy any poet (the defiance includes the shade of Algernon Charles Swinburne) to fit one of those titles into a stanza and preserve still the illusion of poetry.

It is this capital difficulty against which our laureates are working. We are willing to wish them success, but occasionally we wonder why they need bother at all. The Stein Song does not mention the Institute, true enough. But Frederick Bullard's music is glorious and truly of Technology, and Richard Hovey's words are—poetry. If we, who possess this heritage (that Dartmouth, we cannot doubt, would dearly love to own) would only sing the Stein Song with sufficient frequency and heartiness, we should find it soon enough as inextricably bound up with our traditions as we could wish. And to tradition there is value, high value, even when it does not, in the argot of the advertising agent, "register a name."

The Experience of Dying

A posthumous record

Sometime Instructor in

I have died several times.

Geology, M. I. T. Two of these deaths have been sudden, and these were also entirely unexpected. By five different means, three of them violent, have I come to these deaths; and by one of these different means I have been passed into oblivion five times.

Those with a turn for mathematics will perceive that

'several' in my case means nine at least, which leads to the inference that there is something feline in my tenacity of life, or, perhaps, that in assuming authorship, I am personifying a pussy-cat. I know the latter inference to be untrue, and I trust the former to be equally unfounded, because I am shortly to taste once more of this temporary (I hope) elision of life.

Though I have died a sufficient number of times to require a polygonal monument (if any), I am not yet And before you weary of seemingly futile paradox and withdraw the honor of your attention, let me define dying as it will be con-

sidered in this discourse.

By dying, then, I mean the process of passing from that quickened consciousness we term life into the black borderland which, so far as we know, edges eternity. I submit that the act of dying is virtually completed when one's consciousness of life has ceased; our sentient participation in the business is then at an end; what happens to the mere physical body thereafter is unimportant from the point of view of the mind, for that is already dead. When one's intelligence has passed into that blank of forgetfulness from which, if one returns, one brings no memory, he is as good as dead — he is dead. Life has left the intellect, and ordinarily its departure is a signal for the beginning of those processes that end in the complete cessation of the complex reactions we call life.

Ordinarily — not always — many have gone into that black borderland, and have returned, and some of them have told us of their going. Some, too, of what they found there—or thought they found; for if they had really reached the marches of the Grim Reaper, they would have no recollection of the event, nor of

how he guards his hounds.

Now, dying, even in these days of a very comprehensive range of subject for comment, is not ordinarily discussed. One would think that an experience which we must all meet would excite in us a lively interest; but such is not the case. Perhaps its universal inevitability robs it of piquancy; or perhaps the subconscious feeling that it is an experience which, when met, usually ends us, inhibits general interest in what should be a subject of some concern to all. Dying has been investigated of late physiologically, and for centuries we have

J. D. MacKENZIE, '11 1888-1922

By J. D. MACKENZIE, '11 been terrified by treatment theological which may be another reason for its unpopularity as a subject over nuts and

wine. (This is being written in Quebec.) So far as I know, however, dying, from the point of view of an active die-hard, is a virgin field. With the statistics given above as a basis, I claim the right to turn a few sods. On more than nine separate occasions, in five

different ways and in four countries, I have survived the experience of dying, and, in each instance, had the causes of my losing hold on life operated with just a little more severity, I should have been very dead indeed.

My first death occurred in Boston, some fifteen or sixteen years ago. It was unexpected, sudden, violent, and

rather sordid.

At that time I was earning a livelihood by a more arduous and less remunerative method than is now the case. It was also less congenial. One of my duties was to sleep in a fivestory building otherwise untenanted at night; and through this great empty barracks of a place I had to go, immediately before retiring, and the first thing after rising. To ensure my attention to duty a series of stations had to be visited, from which a magnetic device recorded my presence on a paper dial fastened to a clock-like arrangement in a locked box in the basement. The edifice through which I nightly prowled, pursuing and pursued by fantastic shadows cast by an oil lantern (this was still the pre-Daylo epoch), was separated from the adjoining one by a party wall, through which were doors on every floor. On every floor, doors gave on a freight elevator-shaft immediately adjacent to the party wall, so that the one elevator served the two structures. In the building beyond, which was owned by the same

institution that I served, another hireling performed

vesper and matutinal rites similar to my own. The freight elevator was of the usual sort — merely a platform slung to guides, with an overhead crossbeam to which the suspending cables were attached. Control was provided by means of a rope running the length of the elevator-well, by means of which the elevator could be started and stopped at any point, either from the moving platform or from any landing.

In strict accordance with the principle of the conservation of energy, it was the custom of my fellow-menial and myself to ride up on this elevator, and ring our boxes on the way down; we conceived it easier and quicker to descend than to climb the stairs. Frequently, however, one of us would reach the bottom of the lift only to find the other making a slow, clanking, but effortless ascent by means of it; and on these occasions it was our custom to carry on with our round, regardless of the stairs to be climbed, being in that happy condition of health where time is of more value than energy. Or, if the platform chanced to have been left at the top, rather than lose the several minutes consumed in its ponderous, rattling descent, we would proceed upward without its aid, and ride down. And, on occa-sion, other reasons constrained us to walk up and ride down rather than to reverse the procedure.

On one such night I had begun with the box under the basement floor, reached by a trap-door and a short flight of mouldy stairs (at the bottom of which I should never have been surprised to see the dog with the face of a man, or any one of the assorted banshees provided by a Gaelic ancestry), and from there went to the second floor, and so on upward. By the time the climb to the fifth story began, I remember I was cogi-

tating on the intricacies of 'der, das, dem, den,' 'die, der, den, die,' and other mysteries of Teutonic declensions. With my mind thus occupied on the idiosyncrasies of German grammar, I mechanically rang my highest box, situated close beside the sliding door on the fifth floor opening into the eighty-foot elevatorwell. I noted that the door was not quite closed.

At this precise moment I heard my fellow watchman whistling meditatively as he approached (so I thought) through his adjacent building. Youngsterlike, I thought to hide in the elevator and give him a surprise by finding me there. Watching over my shoulder the corridor in which I momentarily expected him to appear, I slid open the elevator door and stepped into — oblivion.

Oblivion, however, did not last long that time. Basing my opinion on the well-substantiated gravitational formula for the elapsed time of bodies falling in air from rest, I should say that I was dead one second. From the remembrance of opening the door until I became conscious of the horrified voice of my friend, I have no slightest recollection. Recollections crowded thick thereafter, however. Abruptly I realized that, instead of being in the adjacent building, my fellow watchman had been coming up in the lift, and, fortunately for me, had nearly reached the top. My thought, much quicker than it can be set down, was that I was on top of the overhead cross-beam of the elevator with one very painful leg doubled under me, and that the cross-beam, with me on it, would very soon be trying conclusions with the sheaves and pulleys at the top of the shaft if the machinery were not stopped. called to Jones to stop the elevator, and, with that exaggerated sense of humor that I have frequently noted at time of crises, assured him that I was not

John David MacKenzie, '11, III

The outline of Dr. MacKenzie's life was given in a recent issue of The Technology Review. It is of particular interest to Technology men, however, to note that Dr. MacKenzie first came to Boston in 1904 at the age of sixteen and secured employment at the Institute as an errand boy. It is hard to know the precise time at which it occurred to him to enter the Institute as a student but in 1907 he matriculated with the Class of 1911 in the course in Geology. During his entire college career he supported himself by various means. One of these means was service as night watchman in Technology's old Engineering B building. It was in this building that the first "experience of dying", which Dr. MacKenzie relates in this article, occurred.

In 1911 he graduated. After serving for one year as Instructor in Geology at Cornell University he returned to Technology for post-graduate study, and received in 1916 the Institute's degree of Doctor of Philosophy. It was in April, 1916, that he enlisted as a private in the 185th Cape Breton Highlanders. In June of the same year he was promoted to a Lieutenancy and went overseas with the 85th Nova Scotia Highland Brigade. In France he distinguished himself when in command of the Cape Breton company of the 85th battalion and in recognition of his gallantry in operations east of Rosieres-en-Sauterne on August 10, 1918, he was awarded the Military Cross. Three weeks later he received the wound which in December, 1922, ended his life.

The accompanying article was written while Dr. MacKenzie was en route from Vancouver to a soldier's hospital, near Montreal, where he underwent the last "experience." The article is reprinted, by permission of the Editors, from a recent issue of The Atlantic Monthly.

dead, and inquired how the devil I had got where I was.

Apart from a very badly bruised shin, there were no ill effects from this odd adventure

I said above that oblivion lasted about a second, and I base this on the fact that I fell twelve or fifteen feet. Now, a second is a long interval in regard to thought, and much can be apprehended in that space of time. Yet from the opening of the door of the shaft to my realization of Jones's voice my recollection is an absolute blank. In other words, apparently I was unconscious from the moment I began to fall. If I had struck on my head, I should have died then and there, and should have been none the wiser. I believe that if my fall had been the whole depth of the shaft I should never have recovered consciousness, and should have died without ever knowing what had happened to me. And the corollary is, that death by falling, about

which there seems to lurk a peculiar horror of apprehension, is quick, easy, and painless. I am sure it is if the fall be unexpected; and I believe it is in all cases.

III

The second time I came to my death was on the Queen Charlotte Islands, slightly before the war. Like my first demise, this one also was unexpected, equally sudden and, if anything, more violent; but I do not consider it sordid. Not that it was heroic, but it was a far, far better thing to do—I mean, way to go—than dropping like a sack of cement in an elevator-well

On one of these islands a deposit that has been prospected for coal presents some features of special geologic interest. For the purpose of studying these features, I visited one of the tunnels driven into a hillside, one fine July day. With me were two associates, and as we lit our candles in the chilly damp air a few feet inside the portal, one remarked, "Here goes to get blown up."

I carelessly replied that it was a quick way to go, never anticipating how soon I should be put to the test.

We went on slowly, examining the rock-walls in the dim light of the candles, and waiting to "get our eyes," as coal-miners put it. Presently one of our trio, who was a few steps in advance, called back that the tunnel was blocked by caved-in rock débris. We were then about eighty yards from the portal. I went up to him, and we stood side by side, looking at the heap of broken shale.

Glancing upward, I noted a low passage between the roof and the top of the pile of rocks. I called my companion's attention to this, and without thinking, he raised his candle to get a better view. There was a point of baleful, bluish flame, and instantly we all realized that a pocket of fire-damp in the roof had been ignited. I remember an urgent thought to get away, and turning: a reverberating rumbling roar and — that was all; no fear, no shock, no pain — nothing. I was

As in my other resurrection, a voice was the first thing to reach my consciousness. My third companion, who was a step behind us when the gas was lit, and therefore a step ahead when we turned to escape, was blown clear because of this short distance; but we others were not so fortunate. Again, as in the other case, returning life brought pain and discomfort. could not lift my head, my breath came with difficulty, and I soon realized that the pair of us were pinned under a mass of broken rock. How long we were unconscious, I do not know — at least, one second, but probably less than a minute.

The subsequent hazards through which our escape was finally made good need not concern us here. wish only to discuss the act of our dying; for I maintain that to all intents and purposes we were dead; we had tasted all the experience of dying, and if the claws of Death merely raked instead of grasping us, it was only because of the lack of a few cubic feet of gas in the pocket he had filled for us, or because his rocks were too small in the cairn he sought to build over us.

There is no dying.

IV

My third was a soldier's death. It overtook me literally — on the slopes of Dury Hill, in Picardy, on that great day in September, 1918, when we Canadians helped break the Drocourt-Ouéant line. It was not unexpected, and, unfortunately, it was lingering rather than sudden; but it made up in violence for any other lack.

The Highland battalion to which I had the honor to belong had done the job laid out for them on that dull raw morning. As usual, they had done it with a finished technique most disconcerting to Jerry Hun; but our losses, alas, were hardly less than his.

When our advance was complete and our gains mopped up, the C. O. sent me back to find some dead ground where we could assemble to continue the advance. Communicating trenches and sheltered ways were clogged with men, living and otherwise; so with two scouts I started overland for the rear. A few bullets were snapping and whimpering near us, and there was a fair amount of shelling, so we ran without haste down the low slope of the hill.

I heard that shell coming, recognized it for a longdistance one, and heard it burst. Heard, too, some of the splinters whining past us. Then I felt a colossal but painless double blow in the back, as if I had been struck with tremendous force by a load of loose hay. The blow lifted me from my feet, spun me around in the air, and I fell (I am proud to recount) facing the

I remember thinking that if this was a wound, it was a curious sensation, and immediately decided that I was in too exposed a spot for comfort, so I got to my feet and managed to make a score of yards to the shelter of a low bank. There I collapsed, but did not lose consciousness.

One of my companions went on to complete our mission, and the other applied a first field-dressing. Though I did not then know it (and this lack of knowledge doubtless kept me alive), I had been very badly hit by a piece of shell-casing, which had passed almost completely through my chest from back to front. I had had the sensation of two distinct blows, and as there was no external bleeding and no particular pain, I thought that a couple of shrapnel bullets had grazed my ribs and knocked the wind out of me, as I was breathing with great difficulty.

The thought that I might die came to me, only to be instantly rejected. And yet there can be no doubt that I was very near death. I was convinced, however, that I was going to live, though life was rapidly becoming most uncomfortable. Later, it became more so.

During the remainder of that day I lost consciousness several times. As I stated above, I had been very badly hit, and only an extremely tough constitution and a destiny for a less comely end each time brought me back to life. Now it is to be noted that I have no recollection of losing consciousness of life — only of regaining an existence that seemed not worth resuming.

The inference is again, that the actual dying is about

the easiest thing we do.

Consequent on this wound, I have died a number of times. Some of my departures have been lapses into unconsciousness due to weakness, and five have been by the chloroform route. These milder takings-off, like the more strenuous ones, yielded no recollection of the instant or of the event of departure. I was, and then I was not, and only the returning to life is memorable - not the quitting of it.

Even those anticipated endings, where chloroform, and operating-rooms, and Ku-Klux-Klan-like attendants, and various other supposedly terrifying appurtenances were involved, have lacked at the sticking-point that elemental thrill with which they are popularly

credited.

The hours immediately before an operation are not pleasant. One has almost the exact sensations experienced while waiting to go into action, which, in turn, differ no whit from those I used to have at college before a cross-country race in which I was a participant. Once away from the mark, once over the top, or when one is at last on the table, it is all the same - a rather pleasant combination of sensations, focused on the determination to extend every faculty to the utmost to attain the desired end.

But notice — such unpleasantness has nothing to do with dying. One always hopes to live through an action, and no one expects to die in a track meet; yet the anticipatory sensations are the same. But, they

are sensations of living, not of dying.

On the table, the last thing you hear is the reassuring, "Breathe deeply now — it won't take a minute"; and the next thing is, "I think he's coming out now" this some hours later. Dying doesn't enter at all, consciously or subconsciously; and much less does the delightful wafting into oblivion envisage Death, though it must be his twin brother.

So I submit that the case against dying is proved. The moment of our release brings no fear; no horror; no regret. The thread does not snap; it parts as softly as a spider's web. And this is true whether it be sudden or slow; unexpected or long-awaited; gentle or violent.

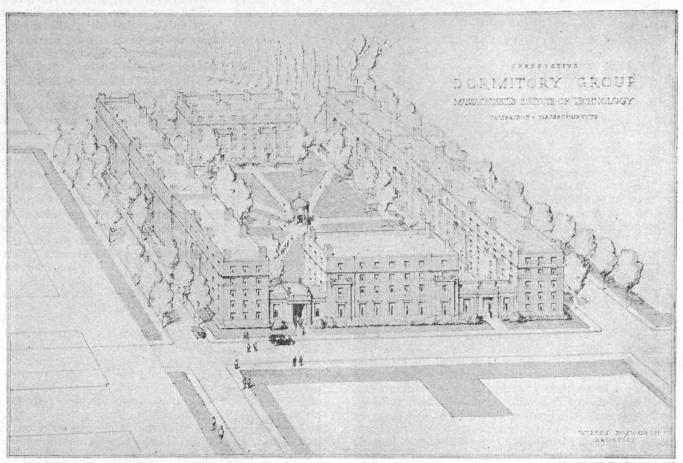
And if you want corroborative evidence listen to William Hunter, the great anatomist. As he lay dying, he said, "If I had strength enough to hold a pen, I would write down how easy and pleasant a thing it is to die."

Yes, an easy, gentle thing; a pleasant, sweet release.

There is no death. And yet — I do not want to die!

The Plans and Progress of the New Dormitories

A popular explanation of the unique designs and methods of construction



Sketch by Welles Bosworth, '89

A COMPREHENSIVE VIEW OF THE NEW PLANS FOR DORMITORIES

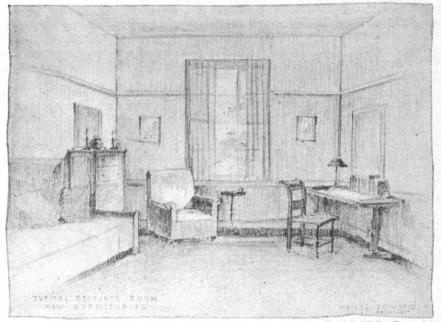
This sketch, never before published, shows the grouping now planned by the Institute for future dormitory development. The thoroughfare at the extreme right is Ames Street—highly idealized. If the sketch did not stop at the bottom so soon, you would see the rear of Walker Memorial in the right-hand type column

The much-discussed dormitories are now becoming a reality—that is, one unit of what is hoped will be a group of several is under construction. This unit, which embodies the results of years of study by those intimately associated with the dormitory question, is made possible by the generosity of the members of the Class of '93, whose gift for a dormitory was announced by President Stratton in June. It will be known as the Class of '93 Dormitory.

In general appearance, the new dormitory will harmonize with the present buildings. The trim of the building is of limestone, with main wall surfaces of brick, similar to the Walker Memorial. As the unit at present under construction will be the centre unit of a projected group of three, the ends will not be finished in brick or limestone, but will be of gunite—a Portland cement mortar, applied by compressed air with a cement gun.

The idea of simplicity, with a maximum of livableness, has governed the interior design. Since experience with the present dormitories has shown that most Tech students desire single rooms, the new dormitory has a great preponderance of single rooms, so arranged with communicating doors that they may be readily combined into suites of two or more rooms, should the occasion arise. The arrangement of the rooms and location of doors and windows is such that there will be ample room for furniture, and good light for desks.

Experience has also shown that the usefulness of a dormitory is greatly enhanced by having a lavatory for the individual use of the occupant. In the new dormitory, every room is provided with a solid vitreous china wash-bowl, so that future students may roll out of bed, wash, shave and make a nine o'clock class without waiting for other fellows to get out of the way. As no advance releases have been made indicating which rooms are to be occupied by fresh air fiends, some provision had to be made to prevent the freezing of pipes leading to these lavatories. For this reason, as well as because of simplicity of design, the steam radiators are placed beside the lavatories; these will supply sufficient heat, even with the radiators shut off, to prevent freezing of the water pipes in the coldest weather. Incidentally, the radiators are placed in this position so that a towel rack may be placed immediately over them and at the same time be convenient to the lavatory. Thus the radiator plays several roles—it heats the room, dries the towels, and humidifies the air. (The character of the humidification, depending as it does so much upon the personal equation of the occupant of the room, is not guaranteed in advance by the engineers).



Sketch by Welles Bosworth '89

A typical interior in the new dormitory. The wall-finish is burlap, worked into the plaster

Each room contains also an outlet for a New England Company telephone, connected directly with the outside, or through a dormitory switchboard. Two base plugs conveniently located for desks or bureaus, a light directly over the lavatory, and a centre ceiling light, take care of any reasonable demand which is likely to be put upon the lighting system. At one time the engineers discussed the possibility of a direct connection for each room with a radio aerial, and, judging by the present dormitory, this might simplify matters of maintenance. A power circuit for each room was also discussed, but as it might easily lead to the necessity for additional units in the power plant and other complications, it was discarded in favor of a vertical system of distribution which puts each outlet in a room on a separate circuit; so that if Jones starts a pressing club, by blowing a fuse he may deprive Smith of one of his base plugs, but Smith will still be able to see his way to bed until Jones has tried all the outlets in his room.

The layout of the showers and adjacent dressing rooms is interesting because of the provision that has been made for ventilation. We have all experienced the bathroom saturated with steam after some quasi-Turkish bath. In the new dormitory the shower room is separated from the dressing room only by a door which is open at the bottom. A duct which carries the supply pipes for the showers and toilets is made of sufficient size to allow it to act as a ventilator for the shower room. There is an opening into this ventilating duct near the ceiling so that air is drawn out of the shower room and replenished only with warm, dry air drawn in under the door from the dressing Thus, steam arising from the showers is drawn room. up the duct instead of filling the dressing room. Should the door to the dressing room remain open for any reason, all but excessive amounts of steam will be caught in the space between the top of the door and the ceiling, and carried out the ventilator. The draft in the ventilating duct is created by leaving the steam riser which it contains uncovered so that the heat from it will warm the air and thereby induce considerable

draft. In addition, there is a ventilator on the roof at the head of this duct.

The rooms are so arranged one over another that all of the supply pipes are vertical, and are carried in ducts similar to those for the toilets and showers, but smaller. Full utilization is made of whatever heat leaks through the insulation of these pipes, by placing ventilators at the tops of the ducts which carry hot pipes and leaving an opening into the corridor at each floor, so that the air in the corridors will be constantly drawn out, and replaced by air from the rooms or stair-halls. At the same time this layout simplifies the problem of installing the large amount of piping necessary for a lavatory in each room. In order to prevent the pipes carrying the cold water from becoming unnecessarily warmed by their proximity to the hot pipes, all cold pipes are carried in a separate duct from those carrying the hot pipes.

The finish on the walls of the rooms is unique. Heretofore, dormitory builders have encountered considerable difficulty in constructing a wall surface which will be at once attractive and durable. The finish decided upon for the new dormitory consists of an outer surface of a good grade of burlap, made integral with the plaster by applying the burlap to the wet plaster, and working it in such a way that it becomes thoroughly imbedded. The burlap then acts as a reinforcement for the plaster and makes it proof against ordinary wear and tear, at the same time giving a pleasing texture to the wall. Of course, if nails are driven into the plaster, the hole will remain when the nail is removed, but the burlap will prevent the plaster from falling out around the nail hole. Or, should a chair or other object hit the plaster, the burlap reinforcing will prevent serious damage to the wall (Field Day night excepted).

Since the fibres of the burlap are well saturated with plaster, painting methods are similar to those used on an ordinary plaster wall, and no excessive amount of paint is necessary. The surface can easily be cleaned or freshened. The ceilings also are painted, although not covered with burlap.

Floors present another serious problem in dormitory construction. Wooden floors laid over concrete are not altogether satisfactory, and linoleum has many objections. In this unit, "Duraflex" floors will be used. These, judging from past experience, should give a most satisfactory covering. "Duraflex," when laid, has an appearance quite similar to linoleum, but it is harder than linoleum, and is not liable to the dents and marks which so quickly disfigure a linoleum floor. At the same time is not so hard as to be tiresome or noisy. It is made in place, with no seams or cracks to open up; it is waterproof, and has the further advantage of allowing repairs to be made on any portion which becomes worn without necessitating replacement of the whole floor or the making of an unsightly patch.

The structural features of the building involve several unique principles in concrete construction which are the result of studies made largely by the research staff of the Housing Company. The construction is termed the Gunstone system because of the important part which the cement gun plays in the structure, and the similarity of the result to a building carved out of solid stone.

These studies indicate that a building for residential purposes differs in many respects from other buildings. The loads to be carried are lighter and the spans shorter than in other classes of building. The wall surface has in comparison small window areas, so that the material used for the exterior wall is of greater importance. The interior surface is usually of plaster, and must be effectively insulated from the exterior. Quite frequently, residential buildings are constructed in small units which vary considerably, so that standardization and re-use of concrete forms is difficult.

It is well known that light loads can best be carried by comparatively narrow and deep beams, since this cross-section gives the greatest strength and stiffness for a given amount of material or dead weight. The



Steam shovel and pile driver at work in the excavation for the new dormitory. Now turn over the page and see how this same site will look next spring

framework of this building consists of rectangular concrete beams comparatively close together, framing into girders, which are in turn carried by columns. Between wall columns are placed smaller columns or studs, which stiffen the exterior wall. This portion of the structure is of monolithic, reinforced concrete, and closely resembles a steel frame building.

By virtue of the close spacing of beams, a light floor slab can be used, so that it is economical to make this of a rich cement mix, such as is ordinarily used for the finish of a heavy structural slab, which may then be finished ready for "Duraflex."

The exterior wall is covered with gunite, which is the hardest and most dense form of concrete, and has proved also to be the most durable form. This exterior slab is thoroughly anchored to the poured-concrete framework, adding to the strength and rigidity of the structure. The brick and stone exterior is also anchored to the frame by ties which are embedded in the gunite: thus there is a complete seal of gunite between the exterior and the interior.

In order to accomplish the above result economically, and at the same time fulfil the last two characteristics of a residential building (that is, insulated interior plaster and wide variation in forms), a system of wooden panel forms was developed to occupy the space between beams and between wall columns or studs and to act as a support to the slabs while hardening, which remain in place in the finished structure.

While at first sight it might seem that this procedure would involve a large waste of lumber, further study indicates that since the forms are not to be removed and re-handled, the panel forms may be made out of lighter and cheaper stock than otherwise they could, and can be made much faster than ordinary forms whose successful re-use depends much on initial accuracy of manufacture. We are also apt to overlook the waste pile which remains after the completion of a concrete building.

The procedure also eliminates the obstacle of variation in different units, or even in different floors, which makes standardization of removable forms

difficult in residential buildings.

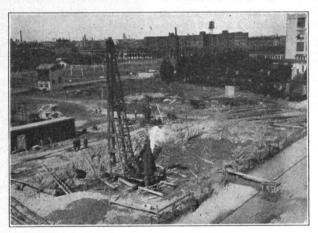
These panel forms play an important part in the finished structure by carrying the interior plaster wall. They are so arranged that an air space exists between the plaster and the concrete. The interior is thereby insulated from the exterior by an air space or by several inches of wood, insuring a warm, dry building.

At the same time these panels give proper nailing surface for the interior finish.

One of the principal advantages of the panel forms, however, comes in the process of erection. The floor panels are sufficiently strong to carry the loads due to pouring concrete without intermediate bracing. Shoring is thereby confined to the girder bottoms. Again, as only the beams, girders and columns are poured at the beginning, there is no delay in the progress of the structural frame while a slab hardens; that is, the form crew and the concrete crew can work practically continuously. In other words, the similarity between this system of construction and steel frame construction is quite close in the method of erection, as well as in the final result, since the framework is erected independently of the floor slab and wall covering.

The quantities of concrete in the framework are comparatively small, so that the work can progress with considerable rapidity. While speed is not an allessential factor, it is of importance because it indicates good coördination between the various phases of the construction.

Of course, there is some form work in this type of construction which is only temporary. For example, in framing a floor, the forms for the supporting columns are temporary, and support temporary bottoms for the girders. Likewise, there are bottoms for the beams which are removed after the concrete has set. The



panel forms which rest on this temporary framework act as sides for the beams and portions of the girders, while the tops of the panels give a good working space. When the beams and girders are filled with concrete, they do not leave a large exposed surface of concrete, so that work can proceed on top of a floor even though the concrete has just been poured.

The exterior wall has likewise a temporary framework which supports the panel forms during the process of pouring the concrete. This temporary framework is removed as soon as the concrete has hardened.

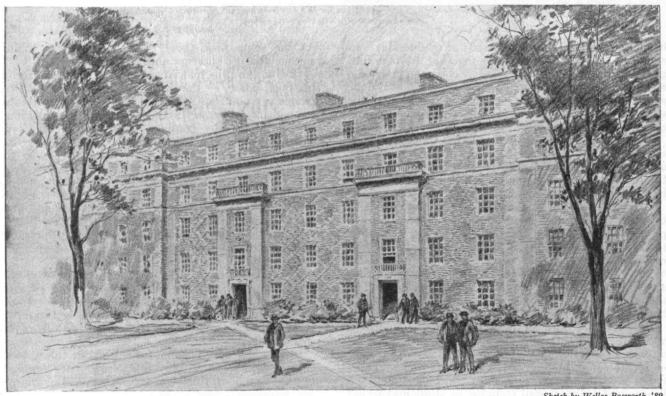
Objection to the use of permanent wooden forms. has often been raised because the combustibility of the wood might add to the fire risk of the building. However, all of the wood which is left in place on this type of building is surrounded almost entirely by concrete, so that it does not have a chance to burn with sufficient rapidity to increase the fire hazard. Of course, in a conflagration all wood would be burned out, as has been shown by several fire tests made on this type of construction. These tests have shown, however, that for ordinary interior, localized fires, this woodwork is not affected because of the protection it receives from the plaster. These tests have also shown that with conflagration conditions, the concrete in the structure is ample to prevent the spread of fire through floors or outside walls. Under conflagration conditions, it is the real structure which counts, as all interior plaster, etc., is a total loss.

Another objection which has been raised to leaving wooden panels in place is that of rotting. If a moment's consideration will be given to the conditions, however, it will be seen that these do not differ from many other conditions which have held for many years, where the wood has remained in a perfect condition of preservation. If the concrete and wood were subjected to alternate wetting and drying, rotting

would occur. However, Gunstone construction is used only above grade, and this portion of a structure is normally dry. For example, the inside of brick walls is usually furred with wood; little difficulty has been encountered with rotting of this wood even though brick work is much less waterproof than gunite. Numerous other examples of wood embedded in concrete could be cited to show that no rotting has occurred where conditions are similar.

The lathing and interior partitions in the dormitory are also unique. A form of lathing which combines the advantages of metal lath with an increased insulating value is being used—a material which is known as "Plastuc" lath, which consists of two layers of felt joined together with asphalt and reinforced in one direction with steel wires and at right angles with steel ribs fastened to the felt and around the wires. Gypsum plaster bonds perfectly to the felt backing and is reinforced by the metal ribs, so that a strong, rigid wall results, while the felt and asphalt give added insulation and water protection. This material is applied in a manner which gives a continuous sheet of lathing over the entire walls and ceiling of a room, and has proved to be a most excellent insurance against cracking in the plaster. This lathing is nailed directly to the panel forms on the exterior walls and ceilings. On the interior partitions it is fastened to a pressed steel channel stud.

At the present writing (October 4), progress on the actual construction has not reached the point where these features can be observed, as ground was not broken until September 11. The Holt-Fairchild Co., who are the general contractors, aim to have the building closed in before bad weather halts outside work, and to finish the interior during the winter. With reasonable weather conditions this fall, the dormitory should be completed early next spring.



Sketch by Welles Bosworth, '89

CLOSE-UP OF THE NEW UNIT (Reprinted from the Review for July)

A Note on Harriman

His management characteristics vivified through the recollections of his former associate

He sent me down to examine the Alton road. I had almost completed a fairly thorough examination

By SAMUEL M. FELTON, '73 President, Chicago, Great Western Railroad

"This fellow," I said to myself, "must be a comer. I don't know who

when I received a wire from him, reading, as nearly as

he is, but I'll do what he wants.' "How many cars do you need?" I asked.

I can remember:

"Just one.

Wire report on one telegraph blank."

"Are you sure one will be enough?"

There was no use arguing with Mr. Harriman. If he wanted a report on one telegraph blank, he had to have it. I did the best I could. I wrote out a wire to the effect that such a report could not possibly be made in so limited a space and then I gave a few facts and an opinion. Reaching New York, I presented him

"Yes. "What time do you want

with my report.
"Yes," he said. "I am glad to have it. I bought the road on your wire."

"Nine o'clock tomorrow." "It will be there."

My first meeting with Mr. Harriman was when I was Vice President of the Erie road. He came into my office.

That is the way I came to know Mr. Harriman. It so happened that I was living that summer at Tuxedo. saw him now and again coming in on the train. Later, when he began railroading in earnest, he sent for me. Mr. Harriman never forgot.

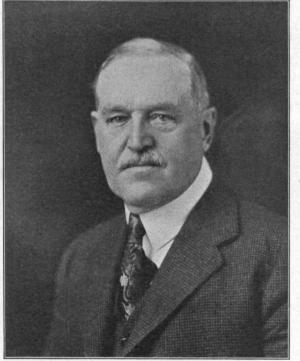
"I have been trying all over the yard," he said, "to get a palace car to ship some horses to Arden. They tell me that it is against the rules to use these cars except for long trips. Can you do anything for me?"

I was with him for ten years, and probably no one ever saw more of him than I did, yet I never held a long conversation with him. one else ever did. It was impossible to do so. To have a long conversation at least one man must talk. Mr. Harriman was too impatient to talk. He was also too impatient to let the other man talk. He had some extraordinary mental faculty by which he could find out all that you had to say before you had said one-third of it

He was a man of small stature. His name meant nothing to me. He was then a member of the banking firm of Harri-

and right there he stopped you. Some men just jump at conclusions. Mr. Harriman seemed to jump at conclusions, but really he did not. His mind was so fast that he could go through every

man and Company and a director of the Illinois Central Railroad — but that I did not know. What I did see, were his eyes-keen. clear and bright.



SAMUEL M. FELTON, '73 Who is President of the Chicago, Great Western Railroad

TWO TALKS WITH HARRIMAN

These quotations are authentic in substance and in style, being transcribed from his memory of conversations with E. H. Harriman—banker and builder of railroads—by Mr. Felton.

He was on his way East from California. I met his private car at Cheyenne. He was in bed.

E. H. H. "I am very sick. I do not know what is the matter with me. The company doctor with me doesn't

know either."

S. M. F. "You are going right through?"

E. H. H. "Yes, but I have to meet a delegation of shopmen at Omaha. They wrote to me and I promised to see them."
S. M. F. "But that strike has been settled and you

are a sick man."
E. H. H. "Yes, I know, but I promised to see them

and I am going to see them."

When we pulled into Omaha I found the station master making ready to attach a coach for 40 men. I countermanded the order.

About 15 minutes out of Omaha Mr. Harriman sent for me to come in to see him.

E. H. H. 'meet here?" "Where is that committee I was going to

S. M. F. their car." "I countermanded the order to put on

E. H. H. "Why do you interfere with my plans?"
S. M. F. "To save your life."

E. H. H. "I said I would see them. I am going to see them. What you have done just means that I will have to see them at Chicago. Wire them to come on to Chicago.'

We reached Chicago. At the station there a doctor was waiting for the arrival of the train and he at once

examined Mr. Harriman.
E. H. H. "Before we do anything else, let me tell you I have to see a delegation of shopmen here. When that is over you can go ahead."

Doctor. "You will go to my hospital at once and

be operated on, or you will fasten your car to the next train to New York and be operated on there.'

We went on to New York and he was operated on for appendicitis.

I spent four weeks working day and night on an examination of a railroad property for him. When I reached Cincinnati, my eyes were so blurred from steady travel that I could scarcely see. I stayed their two weeks and made up my report. Then I took it to him in New York. He glanced at a couple of pages

and turned to the summary.

E. H. H. "It is just what I want."

S. M. F. "But why don't you read the report and see if you agree with me?"

E. H. H. "No, it is just what I want."

phase of a subject and reach a conclusion in less time than it would take most men to state the problem. He wanted the fullest statistics on every operation, but he seldom read anything except the summaries. He would employ no one whom he did not fully trust for his investigations. He knew that the summary of a man he trusted would be based upon facts set out in the report. Therefore, he knew that if the summary showed him what he wanted to learn, the facts to back up the conclusions would be in the report and he could refer to them if necessary.

He never waded laboriously through masses of figures. He never waded laboriously through anything. He could find out every needed fact of the most in-

volved financial statement in five minutes.

He was quick, sharp, and stinging in reprimand, and he seldom, at the time, commended good work. Yet, as I said above, he never forgot good work or anything in the way of a favor. When I was in charge of the Alton, during the St. Louis Exposition, we carried many thousands of passengers without a single accident. Mr. Harriman did not say a word about it, but at Christmas he sent me a substantial check and a letter.

He was very angry at me for having presumed to interfere with his plans for seeing the shopmen. I knew afterwards that he changed his mind and that he appreciated having had his personal welfare put above his desires of the moment. But he never said so. The nearest he came to it was writing a personal letter to me in Mexico from his last sick bed. He intensely disliked writing letters. He never sent a letter if the business could be done by telephone or telegraph, and therefore I knew what it meant to him under these trying circumstances to painfully write me a long letter in his little, cramped hand.

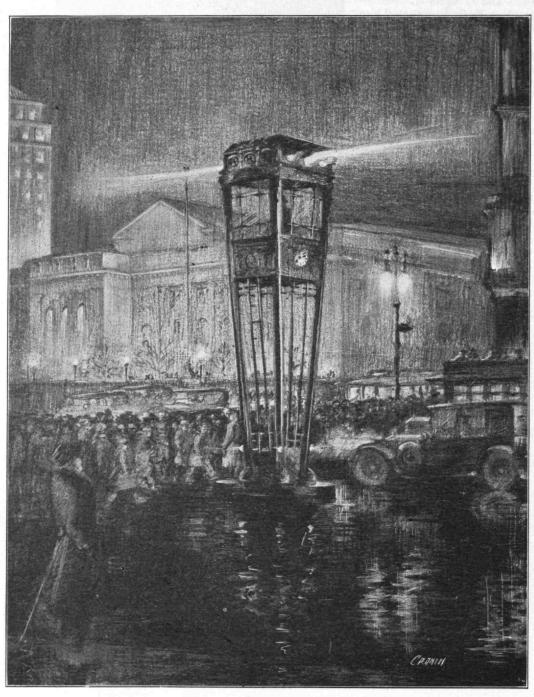
Fifth Avenue Traffic Tower At Night

8

A Drawing by

John T. Cronin, '17

The traffic tower itself is the design of Joseph H. Freedlander, '91.



The Ninety-Ninth Meeting of the Council

The Alumni Debating Club gets off to an Early and Successful Start

George L. Gilmore, '90, President this year of the Alumni Association, has been reading, we venture, in some Dramatic Supplement on the virtues of "pace." He is an admirer, let us hazard, of that other George surnamed Cohan. Certainly the ninety-ninth meeting of the Alumni Council, held in Walker Memorial on September 24, went off, under his stage management, at a speed (or if you prefer it, a Tempo) which augers a coming series of vaudevilles snappier than the Council has featured for years. The business meeting began at 8.10 p.m. and ended at 9.45, and although these hours are familiar ones for assembly and adjournment, yet so crowded with incident was the space between them that the Review's young man took twelve pages of notes thereon, and O. B. Denison, '11, the Executive Secretary, used five pages, closely typed, to minute all occurrences. More: this close-packed meeting was a full two months in advance of last year's beginning date.

The usual informal dinner (a competent if not brilliant essay in stewardry) began at 6.30, this time in the Grill Room. I. W. Litchfield, '85, was absent. So was any suggestion of a Salad Oration. There is, however, no suggested connection between these facts. Mr. Gilmore betrayed no sign of wanting a Salad Orator, whoever. He showed no agitation on the appearance of the Crucial Course. To him, obviously a salad was a salad—not a symbol. He attached it wordlessly, and the Council, catching his mood, pitched into it with cheer.

Following the dinner, Mr. Gilmore announced adjournment to the Main Hall, where Mr. Denison had prepared a rare entertainment. It was movies: movies of the Inauguration and Graduation of last June, taken by the Class of 1923. Dennie unstrapped from his back the Steinway upright which he carries with him on all occasions, and seating himself before it, played, for accompaniment, a variety of tune, from Onward Christian Soldiers to The Rise of Rosie O'Reilly, adding now and then an explanatory spoken obbligato. It was, all in all, a performance that S. L. Rothafel would have been glad to praise.

This over, the Council returned, by degrees, to the Grill, and composed itself for eloquence. It came first from Mr. Denison, who read the minutes of the previous meeting. "The ninety-eighth and annual meeting of the Council was held in Walker Memorial on May 28. The usual formal dinner."

May 28. The usual formal dinner . . . "
What! The . . . usual . . . formal . . . dinner ?
The Council looked stunned. A. W. Rowe, '01, all but swooned. It had been a formal dinner, and he, like all the rest, had come in a business suit. The Council felt an instant of intolerable tension. Yet—what was wrong with this picture? Surely, surely . . . Then, heard with all the faintness of the horns of Elfland, "I beg your pardon," said the Executive Secretary, "the usual informal dinner preceded the business meeting." The tension snapped, and the Council's chest muscles relaxed again. Members settled back in their chairs to hear the rest. But there was no more excitement to it, and, Mr. Denison having caught himself in time, the minutes passed approved as read.

Next there followed the customary blowing of whistles and dipping of ensigns occurrent each year when incoming and outgoing Term Corporation Members pass one another in harbor. Dr. A. D. Little '85, being introduced as "a retiring member of the Corporation" launched a pun at Mr. Gilmore's expense and proceeded, then, to welcome Charles R. Main, '09, and Willis R. Whitney, '90, both present, as new Corporation members.

Corporation members.

"After", he said, "they have presented themselves at the President's office on the occasion of their first corporation meeting, Miss Miller has examined their passports and diligently compared their photographs with the originals, they will be duly admitted to the councils of the great." Dr. Little expressed the hope that both they and Technology would profit by their experiences.

He then proceeded to outline a few hopes he had for Technology in the future. The first of these was that Technology would not yield to the temptation of establishing courses of instruction in such special industries as "Ceramics Engineering" and so on.

The most strongly held of Dr. Little's beliefs was the wisdom of the early establishment of a School of Fuel Engineering. Far from being a study of a special industry, this subject was one which underlay every industry there was. Dr. Little believed that such a course should be established in close conjunction with the Department of Chemical Engineering. The time, it seemed to him, was opportune, and it was a great hope of his that the study which the Corporation was at present giving to the problem might result favorably.

Dr. Little expressed the further hope that some means might be found of tying alumni-at-large more closely to the Institute, and made the suggestion that a syllabus of advanced professional reading, and a possible quiz bulletin, periodically sent out to alumni, might serve to make the Institute a more general scientific and professional clearing house for former students than now it was. He considered it of prime importance that the young alumnus be carefully followed by the Institute for the first three years of his professional life, so that there might be established a tie not easily to be broken later.

That was the parting suggestion. Dr. Little sat down and resumed a Pall Mall. Mr. Gilmore thereupon begged Mr. Main to bare some of the emotions felt by a nascent Corporation member. Mr. Main pleaded that his nascency still stood in his way, but drew attention to the interesting fact that, so far as is known, no father and son, both Technology graduates, had ever served upon the Corporation simultaneously until he had joined his father, Charles T. Main. '76, upon it.

Main, '76, upon it.

Mr. Gilmore's roving eye had by now spotted his classmate, Dr. Whitney, and consequent upon the conclusion of Mr. Main, Dr. Whitney found himself on his feet protesting that he felt breathless. He had dashed in to Technology upon orders from his Secretary, and had not known until his arrival whether he was to attend a Corporation meeting or a class banquet. He judged nicely the temper of the audience facing which he found himself, however, and delivered a plea for conservatism, for slow action on new ideas, for painstaking examination of them before they were pronounced good or bad.

There then began a series of special committee reports which kept the Council engaged until close to adjournment time. There were eleven of these, and

they were presented in a total time of fifty-five minutes. One report every five minutes is heavy cannonading, and it is scarcely surprising that there were casualties. Three committees were shot down, one of them from under James P. Munroe, '82.

The first report was made by Mr. Denison in the absence of Everett Morss, '85, Chairman of the Committee on Alumni Funds. The substance of the report was that the Committee would like to be discharged, please. It was so moved and seconded. Mr. Gilmore put it to a vote. There was a crash of assent, and the Committee lay bleeding in the dust.

Mr. Munroe, Chairman of no less than four committees, and being anxious to lessen his responsibilities suggested that his Committee on the Revision of Constitution and By-Laws be discharged. Mr. Munroe was swiftly unhorsed. He dusted himself off and went on, apparently unshaken, to report on the Committee for the New York Technology Club. Charles W. Aiken, '91, rose to reinforce Mr. Munroe, and related some of the difficulties which the Club had experienced in its efforts to move from Gramercy Park to New York City. There had been times of much discouragement, said Mr. Aiken, but they were, it was greatly hoped, over. The Club was at present negotiating with another organization to such good effect that everyone was asking himself, What could possibly go wrong now? Details may be forthcoming in a future issue of the Review.

Mr. Munroe, whose middle initial might have stood for Proteus, then reported for the Committee on Portraits of Past Presidents, saying that the Committee was busily at work securing biographies and other data, not only of Past Presidents but also of the founders of the Institute, and prominent men, past and present, of the Corporation and Faculty. The efficiency of the Committee's work was largely due, said Mr. Munroe, to one member, Charles F. Read,

'74, of the Bostonian Society.

The Committee on Honorary Fellowships could make no report at present, so Mr. Munroe yielded the

floor to the next comer.

By now, it was 9.05 p.m. and Dr. Rowe had not yet addressed the Council. Perhaps Mr. Gilmore sensed a restiveness: at any rate, he called upon the Doctor. As Chairman of the Committee on the Choral Society, Dr. Rowe, having risen, stated that the Choral Society was beginning its new season as an independent student activity, to be this year much less circumscribed than before. He complained that when (as last year) 700 Alumni were sent post cards of notification of concerts, attendance was unduly circumscribed when only four responses came in. The mailing lists this year would not, said Dr. Rowe, be so circumscribed. Personal invitations would be sent to all members of the Council with the request that they purchase seats.

Dr. Rowe sat down for an instant, thus technically effecting the change in his chairmanship from the Committee on the Choral Society to that on the proposed remodeling of Walker Memorial. A report of no circumscribed dimensions had been presented by this committee to the Executive Committee of the Corporation last Spring, Dr. Rowe said, but, so circumscribed had been the time of the Executive Committee and Dr. Stratton that no action upon the report had been taken. This had, of course, seriously circumscribed the activities of the Committee on the proposed changes, which, as can readily be imagined, had circumscribed almost everything else in sight. There

was, in consequence, nothing more to say. The Doctor sat down in a disordered pile of drawn circles.

Then Mr. Denison, clearing away the hoops, read a letter from James W. Rollins, '78, Chairman of the Committee on Dormitories, which outlined briefly the present happy situation which will result next Spring (due to the generosity of the Class of '93) in the completion of one new unit.

"You all know where the dormitories are going to be," said Mr. Denison. "They're going to be out there." He gestured towards the Pacific Ocean, which by a happy coincidence lay along the straight line that connected the Council meeting-room with the dormitory

site.

Upon nomination by the Committee to Attend to Those Things, the Council rejuvenated itself by electing these representatives for local clubs:

Boston—James W. Rollins, '78 Philadelphia—E. G. Allen, '06 Taunton—Thomas B. Booth, '95 Pittsfield—Paul D. Sheeline, '19

Two of these changes were adiabatic.

Arthur T. Hopkins, '97, Secretary-Treasurer of the Alumni Association then officially introduced to the Council the Executive Secretary, Mr. Denison, among whose duties it was, said Mr. Hopkins, to do all

the work of the Secretary.

Mr. Denison rose, amid much applause, to give a brief description of the problems and projects of his office, and some account of what had been (may we say?) his toe-hold tactics. He reeled off a set of geographical names (designed for visit) in a manner which took a Philadelphian back to Broad Street Station; he added up a number of figures which all seemed (in a manner which might argue special pleading) to total Eleven, announced a past trip to Providence and a prospective one to Akron, Ohio, and altogether presented a picture of enthusiasm which the Council most obviously found pleasing. His remarks were endorsed by Richard Morey, '95, of St. Louis, a guest of the evening, and the Dean, H. P. Talbot, '85, who has just returned from a six-month tour of the country.

Mr. Gilmore announced that the Annual Banquet of the Alumni Association would be held in 1924, on either January 5 or 12. He then passed rapidly and easily to a discussion of the All-Technology Reunion of 1925, and before you could say "Congress 635" it had been moved, seconded and passed that a committee on the 1925 Reunion be appointed by the Chair. This brought Frederick H. Hunter, '02, to his feet for what, if you will examine the record, you will discover to be the first discussion of the evening. Several members of the Council accepted Mr. Hunter's address of the Chair as the conventional signal that adjournment had been announced, but were restored to order by the Sergeant-at-Arms. Whereupon Mr. Hunter asked if the appointment of the Committee committed the Alumni Association to the Reunion. The Chair indicated that it believed the committee should be one to consider the advisability of the Reunion.

Then, suddenly, it was all over. Mr. Gilmore adjourned the meeting. There proved to be no exit march, and the Council filed out quietly. One member tripped over a circumscribed circle on the way out, and was treated at the Evans Memorial. He refused to give his name.

TECH ME

WARREN K. LEWIS, '05

Dr. Warren K. Lewis, Professor of Chemical Engineering at Massachusetts Institute of Technology, has written an article for the Lamp, official organ of Standard Oil Co. of New Jersey, in which he minimizes the danger of gasoline ever reaching a price of \$1 a gallon.

Dr. Lewis includes as gasoline, however, all liquid fuels which propel an automobile — the light petro-leum distillate commonly known as "gasoline," light oil distillates from soft coal lignites or oil-bearing shales, and ordinary alcohol, produced from fermentation of nearly every growing plant. They are all probable motor fuels of the future.

If the number of automobiles increases in the next fifteen years as rapidly as it has in the past ten, there will be 35,000,000 auto-mobiles in use in 1937, requiring yearly 280,-000,000 barrels of gasoline, against present 12,500,000 automobiles consuming 100,000,-000 barrels per annum. Dr. Lewis estimates that we should have available in 1937, 300,000,000 barrels, if we take advantage of improved distillation, "cracking" and other devices to obtain the maximum yield of refined gasoline from the crude oil; moreover, this computation completely ignores the probability that automobile engine efficiency will be noticeably increased, lessening fuel consumption per car.

In case of possible failure of the petroleum supply of this country, by mere extension of existing facilities, the yield of motor fuel from coal could be brought to 7,200,000 barrels yearly. In addition, the state of Colorado alone contains enough shale to supply oil equivalent to present crude pro-

duction for 100 years at least.

-Boston News Bureau.

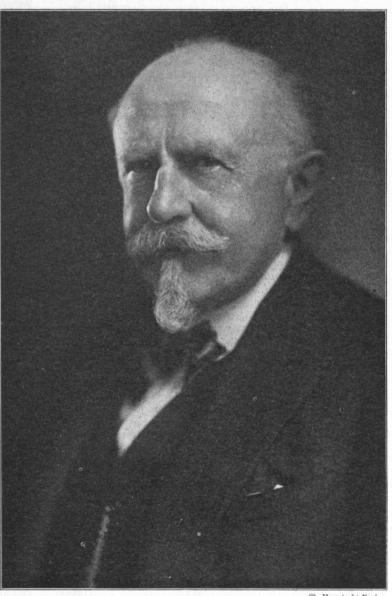
JAMES A. TOBEY, '15

James A. Tobey, Washington Representative of the National Health Council for the last two years, has been appointed Administrative Secretary of the Council with headquarters at New York City. He will succeed Walter Clarke, who has resigned to study medicine during the next five years, in Europe. Mr. Tobey was graduated in Sanitary Engineering and Public Health from the Massachusetts Institute of Technology in 1916, and in law from the Washington Law School in 1922. He has served as health officer of Summit and West Orange, New Jersey, as representative of the New Jersey State Department of Health, scientific assistant with the United States Public Health Service, and during the war was a first lieutenant in the U. S. Army Sanitary Corps. He has also been connected with the sanitary service of the American Red

Besides his duties with the National Health Council, Mr. Tobey has been associate editor of the American Journal of Public Health for several years and is now President of the Washington Alumni Association of the Massachusetts Institute of Technology. -Washington Post.

JOHN R. FREEMAN, '76

One of the first names to be mentioned to one in quest of individuals of capacity in Rhode Island is that of John R. Freeman, nationally known engineer, business organizer, student and president of a number of insurance companies.



@ Harris & Ewing

JOHN R. FREEMAN, '76

"One of the names to be mentioned to one in quest of individuals of capacity in Rhode Island."

Mr. Freeman was reared on a Maine farm at West Bridgton, and was educated in the district schools there and in the public schools of Portland and Lawrence, Mass. He graduated from the Massachusetts Institute of Technology in 1876 in the Department of Civil Engineering. For twenty-six years he has been a member of the Technology Corporation. He is President of the American Society of Civil Engineers and a past President of the American Society of Mechanical Engineers and of the Boston Society of Civil Engineers.

Among Mr. Freeman's first labors were those of an assistant and of principal assistant to Hirma F. Mills, chief engineer for the Lawrence Water Power Company at Lawrence, Mass. After ten years of exacting service in which he gained valuable experience in stream flow and gauging at Lawrence and at Manchester, N. H., he opened an office as a consulting engineer in Boston, and simultaneously became associated with the Factory Mutual Fire Insurance Com-

pany as inspector and hydraulic engineer.

In less than three years he became chief of the inspection department and reorganized it. His mastery of the study of fire prevention was supplemented by his unifying of the manufacture of appliances and equipment to certain standards. In recognition of his ability he was made President and Treasurer of the Manufacturers', the Rhode Island, and the Mechanics' Mutual Fire Insurance Companies in 1896. Within a few years the State, Enterprise, and American were added to his administration. These six companies carry about \$2,000,000,000 of insurance on about 4000 factories. In these "Factory Mutuals" Mr. Freeman has organized fire prevention on an engineering basis.

While this work has been carried on, Mr. Freeman has devoted fully one-half his time to engineering and public matters. As a consultant he served with the New York Board of Water Supply. The magnitude of his work in this connection is shown by his report on the water supply resources of the city of New York in 1899. This report, in printed form, covered 600 pages, illustrated, and was generally acknowledged to be the most elaborate report prepared by a single engineer on water works. The work was accomplished

in seven months.

Mr. Freeman was engaged in a consulting capacity in the project of modernizing the Grand Canal in China. He is still engaged with the water supply problems of the city of New York. He supervised the organization of investigation of the water power resources of the state of New York. He has been retained on several occasions by the Canadian Government as consulting and supervising engineer on important projects. In a similar capacity he has served in Mexico, California, and Montana and on the Isthmian Canal locks and dam. During the World War he was instrumental in organizing fire prevention in munitions factories and was chairman of the National Advisory Committee for Aeronautics.

—Christian Science Monitor.

LUTHER ROBERTS NASH, '94

High reputation as a public utility economist rests upon an interesting and varied career in the case of Luther Roberts Nash, who is public relations manager for Stone & Webster, Inc., specializing in rates, fares, franchises, taxation and regulation matters for companies operated by this organization and in similar problems for other clients. Mr. Nash was born at Ridgefield, Conn., in 1871. He was educated at the



LUTHER ROBERTS NASH, '94

The subject of one of the Electrical World's "Biographical Frontispieces", here reprinted

Massachusetts Institute of Technology (S. B., 1894) and at the Harvard University Graduate School of Arts and Sciences (S. M. as of 1898). He has been continuously connected with Stone & Webster since 1895, his earlier work embracing drafting, construction inspection, designing and executive engineering. From 1904 to 1908 he was manager of the Sayannah (Ga.)

Electric Company.

For the past fifteen years, with headquarters at Boston, Mr. Nash has been actively concerned in the development of regulatory practice, keeping familiar with all important decisions of courts and commissions. He has appeared as an expert in many rate proceedings throughout the country, has made valuations aggregating many millions of dollars for such cases and has advised on other valuations by his organization totaling several billions, giving special attention to overhead and other intangible elements of value. The design and analysis of rate structures for central-station, gas, traction and especially wholesale power and street lighting have received his keen attention. Franchises, service at cost, taxation methods and occasional lectures on public utility financing, rates and operations at Harvard and the Massachusetts Institute of Technology have also occupied him, and Mr. Nash has written extensively upon the foregoing topics for a wide and appreciative following.

In the broader problems of regulation he has recommended liberality and flexibility in the rate of return as an incentive to progressive, efficient administration and expansion of service. He is a member of various national organizations and has done

much committee work.

—Electrical World.

ATHLETICS

DURING THE SUMMER



Field Day, 1922

The new athletic plans formulated during the summer were inaugurated on October 3, when more than three hundred students reported on the afternoon of the second day of the fall term at a meeting of candidates for Field Day teams.

To fill the place left va-

cant by the resignation of Frank M. Kanaly last June (who left to accept a full professorship and the coaching of track and field athletics at the University of Maine), the Advisory Council on Athletics, in conjunction with the Medical Director, has evolved a plan by which the instructing staff in physical training is to be distinct from the coaching of the athletic teams. The physical training work, which is required of all Freshmen, will be under Henry P. McCarthy, who was in charge of the corrective gymnastic work during the last year as Mr. Kanaly's assistant. Dr. T. J. Connor, former Lehigh University track coach and later Director of Physical Education at Tufts, and Francis C. Warren, Bowdoin, '20, have been selected to coach the crosscountry and track teams. The latter is also coaching soccer, and later in the season may devote most of his time to basketball and other sports.

All are to coöperate in carrying out the joint aim of Technology athletics as in the past. It is expected that the increased opportunities will bring more men than ever out in competition. Freshmen are still to be allowed to substitute competitive sport in place of the physical training in the gymnasium required from all first-year students—in fact will be urged to do so. The corrective training for those not physically well enough equipped to pursue the regular gymnasium course is to be further developed under Mr. McCarthy, and an attempt by rearrangement of schedules and other means is being made to have the sections in the gymnasium smaller, in order that more individual attention may be given. It is felt that this plan, which releases the coaches in competitive sport from carrying on the gymnasium courses, will be more satisfactory than the old arrangement.

In speaking of his plans before the candidates for Field Day teams, Dr. Connor said: "I expect to be in position this year to try an old theory of mine. Heretofore I have trained men at colleges whose policy it was to get a line on prep school athletes and persuade them to go to college by various means; as a nucleus for athletic squads. I have always insisted that the best varsity teams could be made from men who do not now go out for athletics at all, and it is to these that I want to pay special attention now."

Dr. Connor is a graduate of the Boston University School of Medicine, Class of '21, and is a heart specialist. His early training in track was received at the Boston Latin School, where he was considered a good middle distance runner. While coaching track at Lehigh in 1915, he came into prominence, as his charges lost but one dual meet during the entire period. After leaving Lehigh, Dr. Connor came to Boston, and was appointed Director of Physical Education at Tufts. He served a year as track coach at Boston College, but his medical

duties kept him from active coaching soon after this. He coached the Charlestown High School track team for a time, but after leaving this position he devoted himself entirely to his practice until he joined the staff at Technology.



The Same

Mr. Warren, who with Dr. Connor will direct the track work, started his athletic career at Kent School, Connecticut, and at Fort Fairfield, Maine. While in preparatory school, he participated in a number of sports, especially track and basketball. He entered Bowdoin, where he obtained his letter in track and was also on the football squad. His efforts were by no means confined to these two sports, as he participated in boxing, wrestling, and fencing. After graduation in 1920, Warren played some professional basketball in Chester, Maine. His college career was interrupted by the war, and he was engaged in the training of troops, giving special attention to the use of constructive exercises. After graduation, Warren engaged in business for a short time, but came back to sports in 1921–22, when he coached track and basketball at Madison, Maine.

Mr. McCarthy received his early athletic training at Worcester Academy, and is a graduate of the Posse Normal School of Gymnastics. He has coached athletics at the Arlington and Winthrop High Schools, and was for a time Director of Physical Education in the public schools of Salt Lake City. He was coach of basketball, baseball and track at All Hallows College in Salt Lake City, and later Physical Director and coach of these sports at Gary, Indiana. He enlisted in the Army while in the Middle West, but eventually returned to coaching, and occupied the position of Assistant to the Physical Director at the Institute last year.

CROSS-COUNTRY

All but one of the veterans of last year's cross-country team, who have returned to Technology this fall, are already hard at work for the first meet against Cornell at Ithaca on Saturday, October 27. The loss of R. E. Hendrie and E. E. Sanborn, who placed second and eleventh, respectively, in the I. C. A. A. A. A. 1922 cross-country championship, was a severe blow to the Engineers, and the absence of individual stars to fill their places is causing Coach Connor to place his hopes on building up a well-balanced combination which can run and score almost as a unit.

Captain G. R. Holt, '24, together with about fifteen of the veterans of last year's squad, spent a two-week training period at Camp Wyanoke on Lake Winnipesaukee, near Wolfboro, N. H. The use of the camp was given them through the courtesy of its owner, Mr. W. W. Bentley, and the men underwent an excellent conditioning period, supervised by Dr. Connor.

Three letter men of last season are out: R. W. Parkinson, '25, R. E. Robertson, '24, and F. W. Bemis, '25. Bemis was consistently third scoring man in 1922, finishing behind Sanborn in the national champion-

ships, and is counted upon as the best prospect for the coming contests.

A. F. Fricker, '25, a transfer from Davidson College and ineligible until now, although easily of varsity caliber, is doing well in the early workouts. W. F. Rooney, '26, and G. H. Symonds, '26, both high scorers on the Freshman squad, are making bids for regular position this year, and appear capable of standing the longer test of the six-mile varsity course, against the threemile yearling route, which they covered in fine form last fall.

Two other men, D. W. Howe, '25, and G. D. Fife, '24, have served an apprenticeship as varsity substi-

tutes, and are hustling for advancement.

A host of new and untried candidates is keeping both coach and captain busy looking for promising material, but it is expected to push training to the utmost in preparation for the Cornell clash, October 27. Last fall, Technology defeated the Cornell crosscountry team on the latter's course, the first time in nearly ten years Coach J. F. Moakley had seen his men outdistanced on home ground. Both institutions favor larger competitions, and the contest will again be one of ten-man teams instead of the customary seven.

The week following the clash with Cornell, Captain Holt leads the Institute runners against Princeton, at Princeton. Unfamiliarity with that course was largely instrumental in swinging last year's very closely contested meet in favor of the Orange and Black, although Hendrie and Sanborn took first and second places for

the Institute.

A Calendar of Fall Sports

- 1. Oct. 26—Soccer—Amherst at Amherst
- 2. Oct. 27—Cross-Country—Cornell at Ithaca
- 3. Nov. 2—Soccer—Dartmouth at Hanover
- 4. Nov. 3—Cross-Country—Harvard and Bowdoin at Belmont
- 5. Nov. 10—Cross-Country—Princeton at Princeton
- 6. Nov. 10—Soccer—All-Chinese at Cambridge
- 7. Nov. 17—Cross-Country—N.E.I.C.A.A. at Franklin Park, Boston
- 8. Nov. 17—Soccer—Worcester P. I. at Cambridge
- 9. Nov. 24—Cross-Country—Fall Handicap Run at Franklin Park
- 10. Nov. 26—Cross-Country—I.C.A.A.A. at Van Cortlandt Park, N. Y.

On November 10, the Engineers have their annual battle with Harvard over the Belmont course. For the past five years Technology has triumphed decisively over its neighbor and rival in cross-country, but the Crimson's exceptional freshman team of last year gives hint of a powerful varsity outfit for this fall, and Coach Connor is looking upon this contest as one of the hardest tests his men have to face.

The two remaining events on the schedule are the New England intercollegiate cross-country championships at Franklin Park, Boston, and the Intercollegiate A. A. A. A. championships at Van Cortlandt Park, New York City, No-

Park, New York City, November 17 and 27, respectively. The former has been won the past two years by the University of Maine, whose team will be guided by Kanaly this year, making them doubly formidable. In 1921 Technology's hill-and-dale team was second, and last year Bates slipped in ahead of the Institute

representatives.

Back in the ruck two years ago in the national event, Technology came up to a close third in 1922, due chiefly to the brilliant work of Hendrie, backed by Sanborn and Bemis. For a three-man score the Cardinal and Gray was easily a winner, but the fourth and fifth scorers brought the Institute total five points above Yale, who in turn yielded to Syracuse. This year any success will have to be gained by just the opposite tactics. With no individual stars in their ranks, Coach Connor's charges must bunch and score in a body to influence the outcome of the meet.





THREE NEW ATHLETIC COACHES



They are, from left to right, T. J. Connor, H. P. McCarthy, and F. C. Warren.

NEWS FROM THE ALUMNI CLUBS

TECHNOLOGY CLUB OF NORTHERN OHIO

Weekly luncheons of the club have been unusually well attended during the Summer and indicate an enlarged interest in Technology affairs among the members of the Technology in Technology affairs among the members of the Technology Club of Northern Ohio. A change in the luncheon place from the Cleveland Engineering Society rooms in Hotel Winton to Grebe's Rathskellar at 2046 East Fourth Street, just south of Euclid Avenue, the latter being a more central location, has aided in securing larger attendance. The luncheon date remains unchanged — Thursdays at 12.15 p.m. (Alumni Association Headquarters and all visiting alumni kindly note.)

Mr. Roland S. Simonds, IV, '12, of the firm of Charles R.

Greco, architect of Boston, is temporarily located in Cleveland. Mr. Simonds is in charge of the architectural work in connection

with enlargement of Mount Sinai Hospital.

The largest meeting of the year in which the Northern Ohio and Akron Technology Clubs will combine is scheduled for Saturday afternoon and evening, September 29. Much interest has been aroused in both clubs by a challenge made by the Northern Ohio body which will bring forth strenuous battles for the Inter-Club Athletic championship. Golf, tennis and base-ball will be the events of the day. Trophies are being donated which will remain in temporary possession of the successful club — and which may be permanently kept — when won a given number of successive years.

Advance plans include athletic events at the Litchfield Farm and golf and tennis at the Portage Club, near Akron, in the afternoon, with a wind-up dinner at the Hudson Club in the

Philip N. Cristal, '17, Secretary, 1200 Marshall Bldg., Cleveland, Ohio.

THE CINCINNATI M. I. T. CLUB

The club held two very successful meetings during the first f of 1923. The annual election, dinner and bowling championhalf of 1923. ship was held on April 14 and the annual outing on June 19.

Both of these events set new records for attendance.

The annual meeting was much as usual. The dinner hit the spot, the business meeting was brief, and the bowling was more brilliant than ever. R. W. Procter, '94, was elected President. He has been a prominent member of the steam roller committee for several years but he made the mistake of being out of town and the steam roller got him. H. B. Luther, '08, was elected Vice President.

The outing was held at the North Cincinnati Gym grounds on the Little Miami River. Baseball, swimming, quoits, chicken

and bridge were on the program.

The club meets for luncheon at the Hotel Metropole Grill m every Tuesday. These luncheons are a great success, room every Tuesday. These luncheons are a great success, but many of the members are located too far from the city to take advantage of them. The club is considering several evening meetings to secure a more general attendance and hopes to be able to entertain and be entertained by the Executive Secretary, the President and members of the Faculty.

> Fred W. Morrill, '07, Secretary, 5713 Valley View Avenue, Cincinnati, Ohio.

THE TECHNOLOGY CLUB OF SHANGHAI

The Technology Club of Shanghai has been holding regular The Technology Club of Shanghai has been holding regular meetings all winter the first Tuesday of each month with an average attendance of fifteen out of a membership of thirty. Members who have attended these meetings regularly are as follows: Holbrook, '12, Hsu, '13, Wu, '13, Chen, '13, Chow, '14, Ying, '14, Lau, '14, Hsi, '14, Hsu, '14, Merrill, '14, Chow, '15, Kao, '15, Sherman, '15, Lam, '16, Ekdahl, '16, Guss, '16, Wu, '17, Chang, '17, Clark, '17, Miao, '18, Chun, '20 and Pai, '20. Members of the Club have given us talks on their own line

Members of the Club have given us talks on their own line of work such as soap making, electrical engineering, iron and steel, etc. Our last meeting was held on June 1 in honor of Billy Kales of Detroit, President of the Technology Clubs

Associated.

The writer, whose address is Standard Oil Company of New York, Shanghai, has been elected Secretary to succeed R. P. Sherman who leaves for America.

M. C. Guss, Secretary, Standard Oil Co., Shanghai, China.

TECHNOLOGY CLUB OF RHODE ISLAND

"This is station TCRI." The annual comparison of vacations and welcome back-ing took place at our first Fall meeting on September 20. Quite a crowd turned out to discuss the big fight and other topics of the day and to curse the vagaries and whims of the local street railway company which is expected to supply

of the local street railway company which is expected to supply perfect service with a five-cent fare.

Morell Mackenzie, '11, our European representative, has just returned from a two-month tour of the textile mills of Switzerland, France, Italy, Belgium and England. Sent over by the Sayles Finishing Company, he worked for several weeks in Switzerland in the various departments of the mill, studying the latest foreign methods. It is unfortunate that there are not more mills near Paris more mills near Paris.

Bill Warren reports a pleasant summer with his new boat. In fact, most everyone with a boat appears quite happy and prosperous looking these days. Bill doesn't believe in the national slogan "See America Thirst." Not while the boat still runs. They say he points the bow down the bay and when the ship stops, Bill sniffs, "Ah, Block Island." But to get back to

the meeting.

The Class of 1911 was there strong, the other night, (both of them) to welcome their illustrious classmate, O. B. Denison, the new Alumni Inspirator. George L. Gilmore, President of the Alumni Association, was also with us and Providence was indeed fortunate to have the privilege of being the first city to hear these officers in their official capacities.

President Gilmore spoke of the work of the Alumni Association and emphasized Dr. Stratton's suggestions that the local associations act as information centers and spread a better understanding of Technology throughout the community, meeting the high school students and showing them what the Institute could offer. The subject of alumni scholarships was also discussed.

Dennie gave us an interesting talk on the recent changes in the curriculum and the astonishing growth of the Military Science Department but the most welcome news, to those who realize the need, was the fact that ground had been broken for

new dormitories.

After our versatile engineer, Mr. E. W. Freeman, Esq., late of M. I. T., had exercised his electrical ability, we were treated to the movies of Dr. Stratton's inauguration and the Senior Week events, following which came the coffee and doughnuts and then — the Camels.
Station TCRI Signing off. Good night!

Norris G. Abbott, Jr., '20, Secretary-Treasurer, 107 Providence Street, Providence, R. I.

TECHNOLOGY CLUB OF PHILADELPHIA

We present herewith our list of officers for the coming season 1923-1924, which are as follows:

C. A. Anderson, '05, President; E. M. Pace, Jr., '17, Vice President; W. J. Beadle, '17, Secretary and Treasurer; J. W. Aylesworth, '03, H. C. Crowell, '03, H. A. Grosscup, '20, A. H. Kinghorn, '20, M. H. Taylor, '20, and G. F. B. Owens, '21, Executive Board.

Mr. E. M. Pace, Jr., who was Vice President elect, is leaving for Washington to take up Naval work there. Pace has put in a considerable amount of time and energy into the Club work here during his stay in Philadelphia, so we made his election

rather an honorary one as a reward for his effort.

On May 2, we held our biggest meeting of the year and made it a "Ladies' Night." In all, there were about forty-three people present, including fifteen to eighteen ladies. Dinner was served at the Engineers' Club and all attended the meeting in a body later on. Our speaker for the evening was the irresistible Elisha Lee, Vice President of the Pennsylvania Railroad. Mr. Lee is a great favorite with the Tech men in Philadelphia and especially the ladies, and gave us a very interesting and jolly talk on railroading.

On Saturday, June 16, we enjoyed one of the biggest field days in the history of the Technology Club of Philadelphia. St. Luke's School at Wayne, Pa., was secured for the event. School was over and we had the entire run of the grounds,

including swimming pool, tennis court, baseball field, etc. St. Luke's is one of the prettiest spots around Philadelphia.

Dexter A. Tutein, '17, Secretary,

1607 Real Estate Trust Bldg., Philadelphia, Pa.

TECHNOLOGY CLUB OF PARIS

H. L. Green, '02, I, 8 ave. d'Iéna, Paris, writes as follows: "I am a Major in the United States Regular Army, and am on duty here in charge of all construction work and other improvement work in all the American Military Cemeteries in France, Belgium and England. I shall be here at least for another year.

A. Sherrill Houghton, '20, V, 51 blvd. Lascrosses, Toulouse, writes as follows: "I came to France two years ago to work for a Doctorate in Chemistry at the University of Toulouse, and I am still working there. If all goes well, and if I do not happen to need any more products rendered scarce in France by the Occupation of the Rhur, I hope to finish and go home for Christ-

mas

Charles B. Glann, '16, VI, 14 rue Daguerre, Paris, writes as follows: "Perhaps Mr. Gibbs or Mr. Denison told you that I married a French girl in Paris directly after the War — June, 1919, and that we returned to America and New York City for one year, where I took up my old position as assistant to the construction engineer of the Western Union Telegraph Co.

"Due to the continued illness of Mrs. Glann, we returned to Paris during the month of July, 1920, and I have been on the continent since then. For eighteen months I was employed by Morinni & Co., doing efficiency engineering and cost accounting work, having been sent to Belgium for nine months while the other nine months were spent in assisting in the reorganization or improvement of the methods used in various French factories.

"I left the employ of Morinni & Co. in February, 1922, and since then I have been with the Vacuum Oil Co. S. A. F., 34 rue du Louvre, as assistant to the manager of their technical department. You, no doubt, know about the activities of this

company and so I will not bother you with such details.

"Like so many Americans who saw active duty in France during our country's comparatively short stay in the Great War, I have fallen in love with France, its customs and its people. Still one cannot but wonder if conditions at the 'Stute are always the same and what has become of the other members of our respective classes since our graduation.'

McCeney Werlich, '15, Secretary, 3 rue Taitbout, Paris, France.

M. I. T. CLUB OF AKRON, OHIO

The Akron Tech Club has had two outings this Summer, both of which have been most successful. At the first, on August 2, we had forty-three out of fifty-nine alumni out to a picnic lunch and field day at Mr. Litchfield's farm. Events of interest were baseball, tug-o'-war and horseshoe pitching.

In the evening the gang adjourned to Mr. Litchfield's residence. Everybody entered into the spirit of the meeting and indulged in card games, singing old Tech songs as well as "Barney Google," etc. The proverbial "Let's have another" was the byword as the different ones made their exit (meeting I should

say).

The other referred to was staged September 29. This was a joint outing of the Cleveland and Akron Clubs with the Alumni Field Secretary, O. B. Denison.

In the afternoon, Cleveland and Akron contested for honors. in golf, baseball, horseshoe pitching, bone rolling, etc. There was some question as to which teams were victorious. Honors

must have been about even.

The Hudson Club in Hudson was the center of evening festivities. About eighty men were out, which shows that the old spirit prevails. A banquet started the ball rolling. When the last of the golfers trailed in, the soup was rather cool, but that mattered not. They had finished the 18th hole and were satisfied.

A little entertainment followed. Five dapper, dancing maids put on some very clever acts. The dresses were very attractive and the girls were applauded in great style. In fact, it got to be quite late when that part of the entertainment was con-

cluded.

O. B. Denison then played a few of the old songs and every-body tuned in. Later, Dennie gave us an outline of the activities at the Institute, what is going on now, and what they plan and want to do in the future. The members were intensely interested in what he said and showed it by asking questions. The men out here think it an excellent idea to have a man like Dennie

in contact with both the Institute and Alumni Associations.

We expect to have a lot more meetings this Winter of the L. H. Burnham, '20, Secretary, same type. Firestone Tire & Rubber Co., Akron, Ohio.

TECHNOLOGY CLUB OF CHICAGO

During the Summer, in addition to the regular weekly luncheons, two gatherings were held. One, a dinner dance at the Chicago Yacht Club on June 29, was attended by twenty-five couples, and the other, our annual outing on July 28.

As in previous years, the Northwestern University Campus was chosen for the outing. The men gathered early in the afternoon and soon the different contests and games were in full swing. A mashie contest, staged for the golfers, was won by Appollinio, '22, while a kite flying contest for members not yet grown up was won by our illustrious President, Henry Kern, '90, with Major Montgomery, '79, a close second. The baseball tournament ended with a team composed of men graduating in 1920, '21, '22 pronounced the winners. As far as the Secretary can find out, the winners of the horseshoe contest was not determined. This will undoubtedly be settled next year. A number of the swimmers tried the lake, but found it rather cold and soon adjourned to the tank inside the gymnasium. The diving contest was won by E. Russell Baldridge, '21. Supper was served in the Lounge Room of the Gym, after which prizes were given to the winners of the various contests.

were given to the winners of the various contests.

On September 13, Dean Talbot unexpectedly arrived in Chicago and an impromptu luncheon was arranged for at the University Club. Due to the short notice, only about twenty-five members could be reached and practically all those

notified attended the luncheon.

The Winter program of activities has not yet been definitely decided on, but a dance will probably be given next month and a dinner shortly before the Christmas holidays.

All out-of-town Tech men, who happen to be in Chicago on Tuesdays, are cordially invited to attend our luncheons at 12.30 at the Chicago Engineers' Club, 314 Federal Street.

George T. Woolley, Jr., '15, Secretary,

832 Seward Street, Evanston, Ill.

M. I. T. ASSOCIATION OF BALTIMORE

Meetings of our Association were suspended for the summer

months, after successfully weathering our first Winter. Cloud-laden skies last June 28 did not prevent the more aggressive among us from taking part in a harbor inspection trip — our last meeting of the season. Bancroft Hill, '11, City Harbor Engineer, was unable to accompany us. But an able and engaging assistant, a cool harbor breeze, a canopy over the upper deck, and a real-life "close-up" of an interesting projected harbor and dock development, made the two and one-half hour trip both an instructive and enjoyable one.

The opening meeting of the coming season, though not yet definitely set at this writing, will take place the first week in October, and will be in the form of a smoker with some special attraction. Regular Thursday luncheon meetings will be continued at the Engineers' Club, and all migrating 'Stuters are hereby enjoined from passing through or by Baltimore without lingering for an alumni (or alumnae) luncheon.

Aaron Goodman, '18, Secretary, 2845 No. Calvert Street, Baltimore, Md.

TECHNOLOGY CLUB OF LOUISVILLE

On November 1, 1922, the Technology Club of Kentucky met at the Louisville Railway Company's Safety Hall. We were able to do this through the courtesy of James T. Barnes, our President, and everyone agreed that it was an ideal place for us to continue our meetings. There is a great open fireplace and an excellent culinary department which can be called into service and place to all it means an expense. on almost a minute's notice and, best of all, it means an evening's entertainment at a very reasonable figure. At this meeting, the wives of the Alumni were invited and after the repast we had a very instructive talk by Mr. Beckner of Winchester, Kentucky on Natural Research tucky, on Natural Resources of Kentucky. Following this talk, Mr. Streng had exhibited a film taken for the Louisville Gas & Electric Company, showing the progress on the pipe line which brings the natural gas from West Virginia all the way into Louisville. This meeting was particularly gratifying, inasmuch as we were favored with the presence of some of the out-of-town members of the club.

It is our desire to have another meeting this Summer and your Secretary hopes that he will be able to devote more time to his duties from now forward. We all feel the importance of welding our Alumni into a homogeneous structure and every one of our members is anxious to do his bit toward making the Alumni Association a big constructive element in the life of the

Institute.

Curtis Webb, '10, Secretary, Box 2, Station H, Aetna Refining Co., Louisville, Ky.



A HOG ISLAND SHIP IN THE PANAMA CANAL

In Service on the Seven Seas

OG ISLAND produced 110 cargo ships. Today 103 of them are busy on the Seven Seas, although general shipping conditions are such that only one-fourth of the United States Shipping Board fleet is in commission.

The Hog Island Ships have steamed a total of 9,000,000 miles—400 times around the world. Built under war conditions and at unheard-of speed, it has taken peace conditions and the severe competition of a declining market to show their great commercial value.

DESIGN BUILD MANAGE FINANCE

STONE & WEBSTER

INCORPORATED

NEWS FROM THE CLASSES

News from even-numbered classes is published in issues dated November, January, March and May. News from odl-numbered classes is published in issues dated December, February, April and July. The only exceptions to this rule are those classes whose Secretaries have guaranteed the appearance of notes in every issue. These classes are: 1896, 1901, 1902, 1905, 1907, 1910, 1911, 1912, 1914, 1915, 1916, 1917, 1918, 1920, 1921, 1922 and 1923. Other classes adhere to the alternate schedule. Due to strict limitation of space, the Review is unable to publish lists of address changes of members of the associations. When the address of any member is not known, the Alumni Association office may be used as a clearing house. The Alumni Office in Room 3-200, M. I. T., will supply a requested address or will act as the forwarding agent for any letters addressed to members of the Association in its care.

1868

ROBERT H. RICHARDS, Secretary, 32 Eliot St., Jamaica Plain, Mass.

Joe Revere and Bob Richards took the train to spend a day and a night with Eben Stevens at Quinebaug. They found Eben overjoyed to see them and they had a real good pow-wow over old times. Eben is President of his company which manufactures woolen goods and has a wonderfully attractive place. He has probably a hundred acres of land but does not do any farming. The price of wages in the mill is so high that he cannot find anybody to till the ground and does not even keep a cow. When Joe found that he had not a pig, he insisted upon it that he should have a pig and, when Eben said, "How about the week-ends when I go down to Weekapaug, seventy miles from here, near Watch Hill on Long Island Sound?" Bob suggested. "You could do as the hotel does down at Englewood on Cape Cod, and at Randolph, N. H., where the hotels have a trailer that goes behind the automobile to carry baggage. You can fit up a trailer to carry the pig back and forth with you, when he makes his trips." Bob suggested that he go into the Pullman car and see all the arrangements they have there for the comfort of the human animal and then he would be well equipped to make the pig happy in the trailer. Of course, the pig must be made happy!

The most noteworthy event that has happened, has been a dinner of the first ten classes which took place at the City Club on June 1. C. Frank Allen made most admirable arrangements for the dinner. The classes were honored by the presence of Dr. Stratton and some seven or eight members of different classes spoke, giving their experiences. After this, Dr. Stratton spoke to the members and gave them a very interesting talk of his connection with Technology and of his plans that were gradually developing as he was able to become better acquainted with the school and with the possibilities of making it useful to the students and useful to the public. The Class of '68 was represented by Eben Stevens, E. S. Safford, and Bob Richards.

1876

JOHN R. FREEMAN, Secretary, 815 Grosvenor Bldg., Providence, R. I.

Mr. Arthur L. Mills has recently returned from another visit to Mexico where he left considerable personal property interests at the time of the Rebellion of ten years ago, more or less, concluding then that his life was worth more to him than his property. He reports conditions are yet far from satisfactory and that the Government is largely controlled by ignorant men of the Peon clan.

Martin Gay, after spending most of his life since graduation in the service of various engineering departments of the city of New York, first of water supply, then of bridges, then of parks, with more recently a return to the bridge engineering department, concluded to take advantage of the retirement and pension act and so resigned; but with characteristic desire to keep doing something, has recently returned as a volunteer worker without salary, to complete a history of the bridge structures in New York which he believed would be of much future usefulness in the department.

Henry B. Wood is reported vigorously convalescent from a recent illness.

Our class is beginning to suffer from the work of the Grim Reaper, as is natural at forty-seven years after graduation.

The most recent losses are Frank W. Hodgdon, of whose life work for the Commonwealth of Massachusetts an appreciative notice appeared in a recent issue of the Review.

The latest is George A. Draper, son of the famous founder of the Draper Company, at Hopedale. For many years George had been the guiding spirit of the Draper Company in many lines. His brother, Eben, also a Tech man and later a Governor of Massachusetts, once told the writer that in spite of George's apparent leisurely methods, it was his long head and thoughful outlook which made most of the money for the corporation. It was his foresight that developed the search for lessening the cost of weaving, which resulted in the Northrup Loom, with its reservoir of shuttles and capacity for being left running with attendance while the operatives were at lunch, etc.

The writer recalls an interesting afternoon at the factory when George described the results of an investigation into the cost of moving work in process from point to point, which resulted in a great tearing down of partition walls and a relocation of machines to bring the processes of manufacture on a circuit where one machine delivered to the next in order of process.

Like his father, he was an idealist in the relation of employer to employee and bequeathed his beautiful and commodious dwelling at Hopedale for a community house.

Waldo E. Buck has just lost his son, Sherwood Emerson Buck, a fine young man of great promise, just started on a business career, by sudden death from obscure internal causes following only one or two days' illness.

A letter from D. W. Phipps, of the course in Philosophy, recently came into the writer's hands. Phipps always was an odd genius, older than the rest of us, and appeared to value learning for its own sake rather than a tool with which to produce. He writes that he is now in his eighty-fifth year, nearly blind, but still cheerful and more or less active and interested in the affairs of the world in general. His home has been in Seattle for many years.

The Secretary has just returned from six weeks on the Pacific coast, mainly in the vicinity of San Francisco and San Diego, where he was studying various problems of dams and reservoirs for water power and municipal water supply.

1880

GEORGE H. BARTON, Secretary, 89 Trowbridge St., Cambridge, Mass.

In the early Summer the Secretary received a long and enthusiastic letter from Chase telling of his expected trip from Denver, Colorado, eastward and promising a visit with the Secretary at the latter's summer camp at Lake Boone, Stow, Mass. Since then, no word has been received from and nothing has been seen of Chase or any word from other members of the class.

The Secretary devoted the Summer to a complete vacation, for the first time in years, with his camp as headquarters, from which various automobile excursions were taken. Among the longer ones were included one to western Massachusetts in which a visit was made at Mount Holyoke and the delightful scenery in its neighborhood; a call at the very fine and extensive Museum in Greenfield which contains an exceptional collection of Indian and Colonial relics; one night at the Charlemont Inn, a beautiful spot in itself, situated near the beginning of the true Mohawk Trail, then a ride over the Trail to the West Crest of the Hoosac Mountains whence we looked down upon the valley of the Hoosick River and across it to Greylock, the highest summit in the State; then a night at Orange, a dinner in picturesque old Warwick; and then home. A second trip was through Quincy, historic Plymouth, and Orleans to Provincetown, and return via Chatham, Hyannis, Falmouth, Bridgewater, and Brockton. A third trip, ending the season, included a visit with the Secretary's life-long chum and former Tech man, W. K. Robbins, at Manchester, N. H., where he is in charge of the Chemical and Dyeing Departments of the Amoskeag Manufacturing Company, and also with him at his summer home in Bradford, N. H. Three nights were then spent at the camp, on the Contoocook River, of Mayor Chamberlin of Concord. While here, a visit was paid to the famous Concord Granite Quarries. On all these trips the Secretary was accompanied by Mrs. Barton and her sister, Dr. M. J. Beede of Pasadena, Cal. Other friends were along on the different

The Secretary is now back at his accustomed duties as Director of the Teachers' School of Science, having started his personal instruction with a class of thirty-one men and women in a field lesson at Medford, Mass.

1882

WALTER B. SNOW, Secretary, 60 High Street, Boston, Mass.

1884

HARRY W. TYLER, Secretary, M. I. T., Cambridge, 39, Mass.

Members of the class are hereby notified that their Fortieth Anniversary is due next year and that there is no hope of a moratorium beyond September—even this respite depending on the Secretary's escape to Europe in the Spring. All members will be required to attend—on penalty of a substantial fine. Any who prefer not to serve on the Committee of Arrangements should notify the Secretary at once (or twice).

The marriage is announced of Miss A. M. Taylor to Fred L. Bardwell Saturday, July 21, at Excelsior, Minnesota. Cordial congratulations are extended.

STANDARD PLATE GLASS COMPANY

DEPENDABLE SERVICE

BOSTON

-:--

CAMBRIDGE

1884 Continued

Mr. and Mrs. F. C. Williams have announced the marriage of their daughter, Eula, to Captain Samuel Calvin Cumming, of the U. S. Marine Corps, in Washington, D. C., on June 2. Captain and Mrs. Cumming will be at home after August 1, in Port au Prince, Haiti.

Members of the class will learn with deep regret that Bridgman was obliged, on account of ill health, to retire as Purchasing Agent for the Metropolitan District Commission of Massachusetts after thirty-three years of faithful service. Bridgman writes that he had been called to the new State Commission on Administration and Finance where he would undoubtedly have had a good position as Assistant State Purchasing Agent. His children are grown up and independent, yet when Bridgman was last seen, he was as youthful in appearance as a grandfather well could be.

The Secretary and his family, in the course of a motor camping tour through Vermont, had a most enjoyable visit with French and Jarvis in Rutland. Mrs. Jarvis is recovering from an appendicitis operation. Jarvis finds it wise—and possible with French's assistance, to devote a considerable fraction of his time to recreation and travel.

News from Sturgis is infrequent but a welcome item from the clipping bureau gives an interesting account of his silver wedding anniversary last June, at which a daughter and Eliot T. assisted. Mention is made of Sturgis' prowess as a pole vaulter but it does not appear whether the Junior is following his example.

The Secretary has received from Henry du Pont Baldwin of the Class of 1922, an interesting collection of photographs, including a good many members of classes from '82 to '86. He would be glad to hear from Secretaries of these classes, or others who may be interested in obtaining missing photographs.

1886

ARTHUR G. ROBBINS, Secretary, M. I. T., Cambridge, Mass.

The Missouri State School of Mines on May 5 conferred the honorary degree of Doctor of Engineering on W. R. Ingalls, '86. This was the first time the Doctor's degree has been conferred by this Institution. After receiving his degree, Dr. Ingalls addressed the meeting of the American Zinc Institute at St. Louis.

The Secretary records with regret the death of Robert L. Harris, S. M. A., '86 on July 4. Since leaving the Institute, Mr. Harris has been connected with the Harris-Emery Company at Penacook, N. H. At the time of his death he was a large owner and Superintendent of the Company.

Dr. A. A. Noyes was elected an honorary fellow of the Royal Society of Edinburgh at the meeting of the Society last July.

1888

WILLIAM G. SNOW, Secretary, 112 Water St., Boston, Mass.

The Class of '88 held its Thirty-fifth Reunion on June 28, 30, and July 1, 1923.

After a heavy, all-night rain, with weather prospects rather dubious, a start for Powder Point Hall, Duxbury, Mass., was made from the Engineers' Club, Boston, at about 10.30 a.m. on the morning of the 29th.

Before we had gone far — and some went farther than others due to not following carefully prepared directions as to the roads to take — the skies brightened and finally cleared, preparing the way for several perfect days.

Our destination was reached in time for a swim in the relatively warm water of Duxbury Bay before luncheon. This disposed of, the golfers, consisting of Besler, Bradlee, Collins, Devens, Horn, Snow and Thompson, went over to the Plymouth Country Club and played the eighteen-hole course. Keough and Ellis also went along and played part way round. In a foursome, Collins and Devens proved to be too strong a pair for Bradlee and Snow.

Of the non-golfers, some went for a sail, while the others played soft baseball or tennis, or merely took it easy. The golfers did not return early, and near the end of a late dinner a hurry call was received by 'phone from Steve Child calling for transportation from the Yacht Club, where the sailing

party had finally landed after some unexpected exercise in the form of a three-mile row to shore from the sail boat which became stuck on a sand bar. Nevertheless, those who went, voted the sail a success.

After dinner the hours quickly passed in reminiscing and in looking over pictures and class data brought by the Secretary.

Saturday was to be a busy day, so the golfers ordered an early breakfast, but nearly all the others were so anxious to lose no time on this occasion that they were down too. Sawyer and his helpers went to the beach and made preparations, during the forenoon, for the outing and clam dinner there. A tent was erected for the use of the bathers and a fireplace built for cooking the clams. Under the charge of Faunce of New Bedford, evidently an old hand at that sort of thing, the steamed clams were soon prepared after which, under Hazen's direction, the coffee was made over the same fire.

The hotel had prepared a fine box lunch for each of us, and after disposing of the above-mentioned items and the delicious broth incident to the preparation of the steamed clams, Snow brought from under cover a punch bowl heaped with freshly picked strawberries, which fittingly topped off our repast on the beach.

Unfortunately, Flint, who had not met with us in all these years, was suddenly called home on Saturday morning.

In the early afternoon, some returned to the golf course, while some played soft baseball, or other games, or simply relaxed on the hotel piazza and talked over old times.

Just before the Class Dinner, which took place on Saturday night, all members present were rounded up and stood or sat for a picture which was taken with Hazen's camera, snapped by H. J. Carlson, past president of the Alumni Association.

Twenty-five were present at the dinner which fully maintained the reputation of Powder Point Hall. The Secretary read letters of regret from those unable to be present.

He reported that his records show the names of one hundred and seventy-eight, '88 men of M. I. T., in addition to which are nine who are affiliated with other classes, or who were students at the School of Mechanics Arts. He reported that thirty-four of our members have passed away. As a mark of respect to their memory, all stood for a moment in silence.

After dinner, Besler, President of the Central Railroad of New Jersey, gave a most instructive talk on the railroad situation, especially with respect to the shop crafts strike. We heard Child in a new role—that of giving several amusing darkey stories in dialect. Others contributed some good stories to the general entertainment which was kept up until a late hour.



The 1888 Reunion

Top Row, Left to Right—Cheney, Devens, Sawyer, Horn, Reynolds, Ellis, Besler, Thompson, Pierce, Faunce, Holman, Snow, Buttolph, Sjostrom, Baldwin, Blodgett, Lee, Sabine and Keough,—Sitting, Left to Right—Hamblet, Cole, Child, Collins, Wood and Hazen.

1888 Continued

Sunday dawned bright and clear, a grand day for the golfers. Those who went to Plymouth, except that Baldwin replaced Bradlee who had been compelled to leave, repaired to the Duxbury course and had a fine forenoon of it, Collins coming out in the lead.

Some had to leave during the morning, but thirteen were left to sit down to dinner, after which the party gradually broke up. Our big '88 banner was removed from the front of the hotel and class properties were collected, to be kept for use five years hence on our Fortieth Reunion.

Russell Robb, Jr., was Chairman of the Class Day Committee, Harvard '23.—Sjostrom, whose home is in North Andover, Mass., is President of the Manufacturers Machine Company, which makes cooling and air conditioning machinery.

It is the Secretary's sad duty to record the death of three of our classmates.

It is with particular regret that he records the death of Winslow Blanchard, which occurred on April 7, at his home in Waban, Mass., after an illness of several months. He was always active in class matters, a good companion and he will be sorely missed. He was draughtsman and assistant engineer of the Boston Heating Company from '88 to '89, assistant to Professor Lanza till '90, draughtsman and mechanical engineer of the Metropolitan Sewerage Commission of Massachusetts from '90 to '95; Treasurer of Blanchard Machine Company from '95, and until he became President soon after. He had held important offices in the Boston Branch of the National Metal Trades Association and the National Machine Tool Builders Association. At the time of his death, he was Treasurer of the Associated Industries of Massachusetts, and one of the Board of Governors of the Massachusetts Charitable Mechanics Association. He was a member of the Engineers' Club, Boston, the Machinery Club, New York, the Wellesley Country Club, the Waban Neighborhood Club, and others. He was survived by his widow, by two brothers, Carleton S. Blanchard of Newton and Frederick C. Blanchard, '91, of Detroit, and a sister, Mrs. Clift Rogers Clapp of West Newton.

George Lyon Harvey died suddenly on August 13, 1923. After graduation, Harvey spent some time in travel in Europe. In '89 he was with the T. W. Harvey Lumber Company, Chicago; and, '90 to '91 with the Harvey Steel Car Company. From '92 he combined the practice of architecture and mechanical engineering. The Chicago papers stated that he was born in that city, that he was the designer of the first steel cars, was an inventor of motion picture apparatus, and was the architect of many fine buildings. On April 2, 1891, he married Miss Mabel Streeter. There were two daughters, Dorothy and Marjorie.

George Cutler Shattuck died on September 4, 1923. For a number of years he was with Shepley, Rutan & Coolidge, Architects, Boston. In the Spring of '99 he went to Montreal and became a member of the firm of Maxwell & Shattuck. In '08 Shattuck reported that he had returned to Boston and was again with Shepley, Rutan & Coolidge, and in 1912 was admitted to the firm. In 1915 the firm of Shepley, Rutan & Coolidge was dissolved and became Coolidge & Shattuck. Shattuck died suddenly at the Cottage Hospital, Exeter, N. H., after being taken ill while on a motoring trip. He was born in Andover, Mass., and was educated in the public schools of that town before attending the Institute. For the past thirty years he had lived in Watertown, Mass. He is survived by a brother, Edwin L. Shattuck of London, England, and three nieces, the Misses Edna and Margery Shattuck of London and Miss Althea Shattuck of Boston.

The secretaries of the even-numbered classes, of which our class is one, are expected to furnish class news for the issues of November, January, March and May only.

1890

George L. Gilmore, Secretary, Lexington, Mass.

E. H. Brownell's daughter, Dorothea DeWolf Brownell, a graduate of Technology in the Class of 1920, was married on February 3 to Clifford Kylef Rathbone, also of Tech, 1920.

This is a little out of the usual run, and our class is certainly proud of the fact that a daughter of a member, receiving her degree thirty years after her dad received his, should finally decide that a Tech man also was the proper man for a husband. They were married at Boston, and will live in Providence.

We regret to report the death on June 2, of Edward F. Bragg, of our class. Only few of us have realized what Ed had been up against in the past. For the last nine years he has been an invalid, and for the past three years was unable to move hand or foot. Your Secretary called on him recently, and found him bright and smiling as he was resting in an easy chair, wrapped up in a comforter before an open window. During all this time he has been able to carry on his business and provide for his family. He leaves a wife, a son and two daughters, who have our deepest sympathy in their great loss.

Pierre S. duPont has resigned as President and Chairman of the Executive Committee of the General Motors Corporation and is succeeded by Alfred P. Sloan, Jr. Mr. duPont remains Chairman of the Board and will continue to take an active interest in its affairs. He also holds the corresponding position in the E. I. duPont de Nemours Company, the largest owner of General Motors common shares. He also remains a member of the Finance Committee and Executive Committee of the General Motors Corporation.

The Columbia Faculty House, at 117th Street and Morningside Drive in New York, was opened in May. This Faculty Club has a membership of three hundred, and the President is our classmate, Gary N. Calkins.

At the opening, Gary thanked President Nicholas Murray Butler of Columbia for the new faculty building, and expressed the club's gratitude for the use of the dining room of Barnard College that the club's members enjoyed while the Faculty House was being built. The cost of the building was about three hundred thousand dollars, and is provided with all the comforts that a club requires.

John L. Batchelder, with Mrs. Batchelder and son, sailed for Europe about the middle of June to be gone for a two or three-month trip.

At the Inauguration of Dr. Stratton, '90 was represented by Batchelder, DeWolf, Gilmore, Goodwin, Packard, Hayden, Hazard, Rice and Wason. We regret that more of the class could not have been present.

At the Bank Golfers gathering at the Oakland Club, Long Island, on September 13, Charles Hayden offered a trophy that was to be won three times before becoming the permanent property of a team. Some twenty or more banking houses were entered in the competition.

In the October issue of the American Magazine is a photograph of "our Charlie," with a full account of his business career. It is an interview with him by Keene Sumner.

It has also been noted that he was a member of the Committee for a plan to consolidate the Calumet & Hecla, Ahmeek, Osceola, Allouez, and Centennial Mining Companies.

Mr. and Mrs. Frederick P. Royce announce the engagement of their daughter, Miss Harriet Evelyn Royce, to Mr. Sidney B. Hosmer. 'Miss Royce was a debutante of the past season, when she was presented at a large dance at the Hotel Somerset.

Harry M. Goodwin, with Mrs. Goodwin and son, spent the Summer in the Rockies, including a trip to Yellowstone Park.

Spaulding Bartlett, Agent of the Slater Mills at Webster, Mass., has recently become Agent for the American Woolen Company.

At the Forty-second Convention of the New England Water Works Association at Burlington, Vermont, the Brochett medal was awarded to C. W. Sherman for the most notable paper read at the preceding meeting.

On June 16, Davis N. Ripley, son of Professor and Mrs. W. Z. Ripley, was united in marriage with Miss Miriam Huntington, daughter of Dr. William E. Huntington, President Emeritus of Boston University. The wedding took place in Newton and a reception followed at the Braeburn Country Club.

John M. Howells' address is 18 East 41st Street, New York, N. Y.—Bowen B. Smith's is at 50 West 47th Street, New York, N. Y.

On August 2, Fred H. Dodge, with his family, left for San Francisco, starting a trip around the world, to be gone probably nearly a year. From there, they were to go to Honolulu, Japan, Korea, China, Manila, and the Straits Settlements, following on to India, Egypt, and Europe.

George A. Packard returned in September after a three-month trip to Mexico and the West in connection with his work as a mining engineer.

Wallace Macgregor is Manager of the Rotating Couplings Company at 734 Yosemite Road, Berkeley, California. He is the inventor of the "All-Ways Fire Guard." It is an instantaneous fire extinguishing device, so constructed that it can be instantaneously turned 360° in a vertical and horizontal plane by the operator, and be used in buildings or remain out in any weather for roof or yard storage protection. It can be used with high or low pressure and be quickly attached to permanent standpipes.

Major Calvin W. Rice, O. R. C., took, this Summer, two weeks intensive training at Camp Dix, N. J., and is now on a ten-day detail in the office of the Assistant Secretary of War, familiarizing himself with the general preparedness program of the United States with particular reference to the mobilization of the industries.

George E. Hale has just returned much refreshed after several months in Europe and immediately went to Washington to inspect the new building of the National Academy of Science for which Hale was largely responsible.

1892

JOHN W. HALL, Secretary, 8 Hillside St., Roxbury, 20, Mass.

According to schedule, our Annual Meeting and Dinner was held at the Boston Architectural Club on the evening of June 11, and was attended by Professor C. H. Chase, R. D. Chase, E. C. Hall, J. W. Hall, Hoxie, Professor Johnston, Locke, Nutter and Shepard. Carlson, Metcalf, Professor Hutchins and Parkes would have been with us but after the date for our dinner was set and announced, the dinner to President Stratton and the delegates to the Inauguration was arranged for the same evening. The present officers were re-elected: W. R. Kales, President; W. S. Hutchinson, Vice President and J. W. Hall, Secretary-Treasurer. "A pleasant evening was enjoyed by all."

The circular letter regarding New London brought forth a variety of news as follows: Joshua Atwood is still with the city of Boston.—George W. Baker, Hartford, Conn., would have been with us at New London had we gathered there, as would John Curtin.—Chas. H. Bigelow, Millville, N. J., has two boys twenty-six and twenty-four years of age, and a daughter of twenty. The oldest son is with Stone & Webster, the younger graduating from Haverford.—Carey Congdon's boy is graduating from Annapolis.—L. P. Cody has two jobs to keep him busy.—Proprietor and Manager of Hotel Cody, Grand Rapids, Mich., and President of the Grand Rapids Electric Co.—Dubois is Paymaster and Disbursing Officer at the U. S. Naval Academy.—Sumner Ely is still in Pittsburgh.—Allan French, Concord, Mass., is taking his family abroad this Summer, and could not be with us.—Gayl Forbush is Assistant Manager of the Royal Exchange Assurance Co., 83 Maiden Lane, New York.—Goetzman, Minneapolis, said he "would certainly like to attend the reunion but conditions, business and otherwise in the Northwest, are



Complete Service

in the design and construction of

SHOPS
FOUNDRIES
STEEL MILLS
CHEMICAL PLANTS
FACTORY BUILDINGS
GASOLINE EXTRACTION PLANTS

STEAM POWER STATIONS
HYDRO-ELECTRIC DEVELOPMENTS
TRANSMISSION SYSTEMS

RAILROAD SHOPS LOCOMOTIVE TERMINALS PASSENGER TERMINALS

HOUSING DEVELOPMENTS
OFFICE BUILDINGS
HOTELS
HARBOR DEVELOPMENTS



Complete Service

By Complete Service we mean that when desirable we actually perform every part of both design and construction with our own forces. We make investigations, reports and preliminary plans, and then design, construct and equip the work in its entirety.

This service includes not only the buildings and other structures involved in the general scheme, but also railroad sidings, sewer, water and electrical distribution systems, streets and sidewalks—in fact, all facilities required to convert a vacant site into a modern plant completely equipped and ready to operate.

This complete service method is particularly advantageous for many reasons, not the least of which is the fact that our close central control of all parts of the work produces a smoothness and speed difficult to obtain when many organizations are at work on the same project.

We also construct from the plans of other engineers

DWIGHT P. ROBINSON & COMPANY

INCORPORATED

Engineers and Constructors
125 East 46th Street
New York

Chicago

Youngstown

Los Angeles

Montreal

Rio de Janeiro

1892 Continued

still rather tense, and unless, and until this adjusts itself I am very much afraid that father will be compelled to stick close. Meanwhile, I shall be appreciative if you will present my greeting."—Hayward, Worcester, one of the standbys, has been obliged to stay pretty closely at home, having been under the weather. We hope to hear soon of his return to his usual smiling health.-The mail of Bayard F. Jones has been returned from 40 E. 28th Street, New York. Does anyone know why?-Kales absence is explained by his journey to see his brother in China.-M. J. Look is still with the Winston Co. at present in Hope, R. I.-J. P. Lyon is in Hanover, Conn.-The graduation of his daughter at Bryn Mawr prevented F. H. Meserve from attending.-Wallace McCaw hoped to come but, alas, only hoped.-Professor Moody, College of the City of New York, was another whose hopes were unfulfilled .- R. H. Mansfield, Okauchee, Wis., sends greeting to all, as does A. P. Newman, Boston.-In answer to Kales recent inquiry as to who besides himself has the rating of grandfather, Ober, Newport, R. I., says he also has the happy title of "grandpa." His first grandchild is in his second year and the second in his first year, both children of his older son, Chester H., M. I. T., '14.—Parish had important engagements at his home Richmond, Va.-E. E. Pettee, Boston, is another in the temporary invalid class who has our best wishes for swift recovery.-Pollard, Chicago, Course IV, sends congratulations to the Secretary on carrying the class to the Architectural Club.-D. F. Potter is with the Robertson Cataract Electric Co., Buffalo, N. Y.—A. G. Pierce, Cutler Hammer Co., Pittsburgh, sent greetings.—H. F. Ruggles is at 83 South Street, New York.—Dwight Robinson is one we might have seen at New London.-A Western trip got in the way of F. L. Rhodes, 195 Broadway, New York.-H. J. Sage is with McLain & Co., 53 State Street, Boston.-We missed A. F. Sargent, Malden, who could have gone to New London but didn't come and eat with us .- Galen Stone is with the Title Guarantee and Trust Co., Brooklyn, N. Y.-Fred T. Schneider is practising architecture in Washington, D. C. He reports his marriage and now a son four years old.—Samuel Weis, Chicago, was one of the possibles at New London. -Francis Walker, Washington, D. C., sends his greeting to all, as does E. A. Wallberg, Toronto, Engineer and Contractor.—Richard Waterman is another one tied up in Washington, D. C., and who sends his best wishes .- H. S. Webb, Scranton, Pa., approved of the choice of New London as meeting place but could not promise to attend.—And this from an older letter from Dr. Arthur M. Worthington.-Dedham, after saying that a man in his profession cannot call any time his own, says, "I have a son in the Class of '25 who thinks Course X is about right. Thirty years have greatly changed the personnel of the Faculty. My boy, however, tells me of Professor Vogel. He at least remains to link the present with the past. While in Coblenz in 1919 I had the pleasure to run across Billy Kales looking as trig as ever in his uniform. Be kind in your judgment of those of us whom Fate has made strangers, and remember it starts a pleasing glow when you search us out and 'touch' us for the honor of the class."-And last of all comes a card from Burrage, Medical School, University of Colorado, Boulder, Colo., proposing a Rackety Whack Cheer.

1894

Samuel C. Prescott, Secretary, M. I. T., Cambridge, Mass.

Although rather late, the Secretary takes great pleasure in calling the attention of the class to the marriage of F. P. MacKibben, now Professor of Civil Engineering at Union University, to Mrs. Ariana Kennedy Elder of Philadelphia, which took place on the 24th of March. Any '94 men who happen to be sojourning in Schenectady will possibly take the opportunity to call on Professor and Mrs. MacKibben at 33 Lowell Road.

A short time ago the Secretary received a most interesting letter from Mrs. deLancey (Harriet Gallup) who is travelling with a friend through Spain. Mrs. deLancey has visited a number of cities not ordinarily on the tourist route and has found a great deal of pleasure in studying the architecture, paintings and other works of art in the old cathedrals and public buildings of these cities.

Announcements have been sent out for the double wedding of two of the daughters of Mr. and Mrs. C. W. Sawyer, which will take place in Brookline at All Saints' Church during the present month. This is a wedding of especial interest to Technology men as Mrs. Sawyer was a member of the Class of '94 and Mr. Sawyer of the Class of '93.

W. E. Piper, who was for many years connected with the U. S. Rubber Co., and after that served as Chief Adviser to the Quartermaster's Department in the purchase of rubber footwear, has, within the past few months, in association with M. H. Clark and G. H. Lawrence, taken over the business of the Tyre Rubber Co. of Andover. Under the new ownership and management the prospects for a growing and prosperous business are most brilliant and all the classmates of the partners associated will wish them the highest success in their enterprise.

A letter from Duckworth a few weeks ago brings the announcement that he has become the manager of the Tate Electrolytic Textile Processes Co., which operates some large plants at Cranston, R. I., for the waterproofing and finishing of various kinds of fabrics. Interestingly enough, the Secretary had made during the past two years a long series of studies on the process employed in waterproofing with special reference to the development of moth-repellent qualities in woolen goods, with very interesting and promising results. It was a happy coincidence, therefore, that a letter bearing on this subject should have been answered by our old classmate, who, for a period of many years, as plant manager with the Garner Mfg. Co. and a shorter period of leisure at his farm in Williamstown, has again taken up business life in connection with the textile industries.

Al Tenney was rusticating in the wilds of Canada and so was not present at the Inaugural ceremonies of Dr. Stratton. The class was represented by a few men, those in the academic procession being F. W. Lovejoy of the Corporation, and Haven, Owen, Phelan and Prescott of the Faculty.

It has been reported that our former President, Price, has taken up ranching in Southern California and is now living there, having returned from his travels in Africa and the Near East.

The Secretary reports with great sorrow the death of C. M. Lawrence, who died in December, 1921, and the death of H. B. McCullough, the date of whose demise is not known.

It may be of interest to some members of the class to know that the Secretary will have received, before these words are published, the honorary degree of Doctor of Science from Bates College. This generous action on the part of a neighboring institution is deeply appreciated by the recipient of the honor, who henceforth will not feel it necessary to explain that he is not really a doctor, when this title is bestowed in professional conversation.

Leonard Tufts is spending the Summer at his summer home in Meredith, N. H., after a busy season at Pinehurst.

The attention of the class is emphatically directed to the important events which will take place one year from this June on the occasion of the Thirtieth Anniversary of the Graduation of the Class of '94. Suggestions as to a proper way to celebrate this auspicious event will be gladly received and transmitted to the President of the class, W. H. Bovey, who will be asked early in the Autumn to appoint an executive committee to arrange for the proper celebration. Those who recall our Twenty-fifth Anniversary celebration in 1919 at Wianno, will, I feel sure, look forward with special pleasure to the next one and it is hoped that all members of the class will make a desperate effort to plan their affairs so that they may attend next year, and also that each one will feel that his suggestions, as well as his presence, is vital to the success of the reunion. By giving notice so far in advance, the Secretary hopes that it will be possible for a large number of suggestions to be made so that the plans will meet the cordial approval of a majority of the members of the class.

1896

CHARLES E. LOCKE, Secretary, M. I. T., Cambridge, Mass.

J. Arnold Rockwell, Assistant Secretary, 24 Garden St., Cambridge, Mass.

Owing to the lack of sufficient favorable replies to the circular, the idea of a reunion at Wianno this year was given up, but Charlie Moat and Mrs. Moat spent a very pleasant week-end at the club house and Charlie Lawrence also came on from New York and was there at the same time as the Moats. Lawrence's boy took his degree at Harvard last June and has spent the Summer in Cambridge doing special work toward a degree in industrial chemistry. He is entering Technology this Fall to study for an advanced degree.

Lawrence has also furnished the Secretary with the following account of Helen Chamberlain taken from a New England paper, which indicates that Helen is as full of life as when we knew her in her student days in the Architectural Department.

One of Newbury's attractions and a resort which is rapidly coming into public favor is the Twin Flower Maple shop down at South Newbury, Vt. Mr. and Mrs. Walter Dodd are the proprietors. Both are graduates from the Boston School of Technology. The whole family, which includes Mr. and Mrs. Dodd, their two sons, David and Phillip, and their small daughter, Nancy, are gifted with original ideas. These ideas, backed by energy which has been handed down from the mother and grandmother, plus fifty per cent of a cultivated product, has enabled them to transform what used to be Allyn Olmsted's "old chair factory" into an inviting sugar refinery, where all kinds of maple products are produced and exhibited, and the grounds into a little paradise "all their own." There is a garden - not like the Hanging Gardens of Babylon - for this is a sunken garden, but no doubt it has fully as many attractions as the flower beds of Nebuchadnezzar's time. It has more advantages and one in particular is electricity, generated on the place. In fact, the air is full of it. Even Mrs. Dodd is a living dynamo and the way she manipulated that batter into delicious waffles was beyond the comprehension of the uninitiated. The maple syrup which accompanied the waffles was purely a Vermont product. Here in this sunken garden, (they call it a sunken garden, as it is in an excavation from five to six feet deep, making a room about 20 x 40 feet, floored by flat stone from the Pike quarries in New Hampshire,) the walls are bordered with brakes and flowers, while here and there is a miniature house, a watch tower, a mill with its overshot wheel in motion, and this is all covered in with canvas which protects the visitor from the sun or evening dew. On an adjoining building is a radio outfit which brings to you in this secluded spot, way up in the Vermont hills, the happenings of a great world. Many visitors from Lake Tarlton and the summer resorts are numbered with those who have found this quaint spot and they are most cordially received at the home of the Dodds which has for its entrance a pergola over which vines creep and flowers bloom indicative of the culture and refinement of those within.

The Secretary spent a Sunday in South Duxbury during August and took advantage of the occasion to make a call on Eugene Hultman and his charming wife at their summer home in that town. Gene was found enjoying his Sunday afternoon siesta after his morning labors on the farm. Classmates will be interested to hear that Gene is appearing in the movies. While on a trip in New York State in September the Secretary dropped in to a moving picture show one evening and the Pathé News showed the meeting of the Anthracite Committee in Washington. The camera man had swept his camera

Financing Your Foreign Trade



OUR Foreign Department offers every modern banking facility for financing international trade. It is always glad to furnish information on trade conditions, and the credit of foreign names, and to quote, upon request, rates of exchange on all countries.

Old Colony Trust Company

Boston, Massachusetts

1396 Continued

along the line of faces and finally had come to rest on Gene, whose smiling countenance and horned spectacles stood out vividly before the audience.

It was on this same trip that, in passing through Bethlehem, Pa., it occurred to the Secretary that Bradley Stoughton might be taking on his new duties as Professor of Metallurgy at Lehigh, and a call proved this to be the case as Stoughton had arrived a day or two previously and was busy getting a line on his new job. He had hardly become familiar with his building, so that it was necessary to secure a pilot to go through the laboratories. He is looking forward with much pleasure to a resumption of teaching along the same line that he followed at Columbia before he became Secretary of the American Institute of Mining Engineers. He reported that Mrs. Stoughton was travelling in Europe with one of the children.

In passing through Burlington, Vt., the Secretary called upon Jacobs and found him busy on the opening day of the University of Vermont. He reported that Dickinson is to continue as Professor of Electrical Engineering there this year and that Moat had read an important paper the previous evening before the New England Water Works Convention in Burlington and that Moat took occasion to criticize the poor water supply of Vergennes. It so happened that Professor Prescott of Technology was in Burlington at the same time and he reported that Steve Gage was in attendance at the convention and that probably also Frank Hersey was there, although he was not actually seen. Frank rarely misses any of these conventions. The town was full of people and the hotels were crowded so that Prescott had to put up

at the Salvation Army Hotel.

Dr. Rowe has written a nice letter of acknowledgment of the contribution of fifty dollars by the class for athletics during the year '23. By vote of the class this is to be continued and Dr. Rowe points out that it will be very welcome as there are imperative demands for funds in order to keep Institute athletics up to standard.

Con Young wrote from Washington that he attended the summer meeting of the Society of Automotive Engineers at Spring Lake, N. J. He is Secretary and Treasurer of this organization. Con took occasion to mention how pleased the Tech men in Washington felt over the appointment of Burgess as Director of the Bureau of Standards to succeed Dr. Stratton. They all believed that he was the man preëminently suited by training and ability to take the job and no other candidate could equal his qualification.

Stewart Bell was operated on for appendicitis and gallstones early in the Summer and spent some time in the Melrose hospital. The operation was successful and Bell came out in due time.

Harry Baldwin, who is head Selectman of the town of Swampscott, received considerable newspaper mention over a controversy regarding expenditures for silent policemen at street intersections in the town. A final

report has not been received as to the outcome, but it is understood that Harry took the ground that the town was not warranted in going to the large expense called for in installing large and permanent signals.

John Lonngren has written a long and newsy letter from India, where he has been installing the first mill for manufacturing iron wire in that country. The work involved everything from start to finish, including even the building of roads through the jungle in order to transport the machinery to the site of the plant. Some photographs which he sent gave an idea of the customs, transportation, and the workmen. His work will probably be completed this year, so that he is planning to leave not later than December and come home via China and Japan, thus completing the circle around the world.

Ralph Whiting, who has been located in Chicago for many years, has now transferred his interests to the West and has his office at 452 Stuart Building, Seattle, Wash.

Miss Rebecca Kite, who spent last year on a European trip, has now returned, and resumed her duties at the West Roxbury High School in Jamaica Plain.

Captain Bakenhus has been transferred from Washington and is now on duty at the Naval War College, Newport, R. I.

Andy Maclachlan is getting in line for the grandfather class by marrying off his sons. The most recent announcement is that of his son, Alexander, to Miss Sarah E. Snell, which occurred on September twelfth in Brookline.

Bob Wason is still the big-hearted fellow that we used to know and is setting a policy that might be followed by others. The newspapers report that he was the owner of a parcel of land in Lowell which the city desired to purchase for a playground. The assessed value was \$1200.00 and the city offered him \$1500.00. He told them that he would not accept that sum, but that his price would be the same as the assessed valuation.

The '96 Class Scholarship Fund now amounts to over \$2000.00 and this has been turned over to Bursar Ford and the income is available for needy students. The identity of the fund is thus kept separate from all other funds of the Institute.

1897

CHARLES W. BRADLEE, Acting Secretary, 53 State St., Boston, Mass.

Reunion Special.

The '97 Class Reunion almost went to protest this year, but Hugh K. Moore came to the rescue at the last minute, and offered the class the use of his summer home at York Harbor. Moore's comfortable summer home looks from its own island out the channel of York Harbor into the Atlantic Ocean. It was late in the season and there was no time for an adequate notice or

plans, but the offer was gladly accepted and twelve men who responded, had a royal time. Bradlee, Buell, Corty, Currier, Folsom, Gilmore, Hopkins, Howes, Hubbard, Moore, Robinson and Schwartz were there.

There was deep-sea fishing for those who enjoyed the sport and for some who only thought they would enjoy it. There was endless attraction for golf enthusiasts at the splendid eighteen-hole course at the York Golf Club; there was tennis and croquet on the island for those who did not play golf, and morris chairs on the broad piazza or before an open fire for others whose greatest sport was to "chew the rag." For all (and above all) there were the most wonderful parties in the big dining room, where Harry Kelly and his aides dispensed roast beef, chicken, fried clams, steamed clams and boiled lobsters — by unanimous vote the best feeds the class ever had. The three days were not long enough to exhaust the possibilities of "Island Cottage," or we should tell of beautiful automobile rides to Portsmouth and to Kennebunk, of boating and bathing, and of calls on neighbor Buell.

On the coast of Maine we renewed our youth. We played our usual round of golf without fatigue; we ate twice as much as ordinarily we did, without indigestion; we argued until three o'clock every morning without being late for breakfast.

Many records were hung up at this class meet, — by Hopkins and Currier for golf, Bradlee for unlimited good nature, Folsom for fuel consumption, Carty for dignity, Robinson for stories of country life, Schwartz for comprehension (Einstein), Gilmore for fishing, Howes for philosophy and Hubbard and Moore for versatility. Hugh Moore, we believe, is the great all-around genius of '97, a royal host, a capital story teller with the most contagious laugh that was ever heard, an altruist who thinks of Technology and the class more than of himself, a musician, a poet, (he read a poem "Technology Spirit" at the class dinner) a legislator and a banker, to say nothing of a great chemist.

He has fitted up his house with accommodations for about thirty men and he invites the class to make this outing an annual event. The good fellowship, the revival of college memories and spirit, and the chance to be a boy again for a few days, make class reunions precious to everyone who attends. Add to these attractions an ideal summer resort and it is certain that no one who spent September 7 to 10 at York Harbor will lightly miss any opportunity to go back.

The following letter was received from Proctor L. Dougherty: "Your various requests for class news have not fallen on deaf ears, only on modest ones. I can write on any subject other than myself. You fellows, however, are so persistent in your efforts to carry on for the Class of '97 that I will not fail you.

"Everyone knows that I am a welfare worker, a public uplifter, as it were, being the Manager of the Otis Elevator Co. in Washington, where we have a large office. There are spare moments, however, that I can devote to other things.

"So I served on the April jury panel in the District of Columbia Supreme Court. While there, I was drawn on the criminal case of the Government vs. Charles W. Morse, et al. After the lawyers questioned me for about ten minutes and found out I had served during the War as an officer of the Emergency Fleet Corp., and knew intimately some twelve out of two hundred of the prospective witnesses for the Government, I was challenged and dropped like a hot potato. Jury service on other cases proved to be interesting and I believe it to be the duty of every man to serve when called. You see I am a member of the Washington Rotary Club whose motto is 'Service above Self.'

"My work as Secretary of the University Club keeps me in touch with many Boston men and Technology is well represented in the club. The Washington men gave President Stratton a rousing good reception and dinner just before he left to assume his new duties at Cambridge.

"More recently I was invited to be one of one hundred citizens to attend the late President Harding's funeral, which was most impressive. The services in the Rotunda of the Capitol were very beautiful and long to be remembered.

"We Massachusetts men are very proud of the new President, Calvin Coolidge, and the dignified way he has taken up his new responsibilities, under most trying conditions, has won cordial support.

"Technology men coming to Washington must positively look us up for we will give them a cordial welcome."

The following letter was received from H. W. Estabrook: "Soon after I received your kind note, I was drawn on the Federal Jury now sitting in Boston, so both my motor trip through the mountains and the class reunion automatically went into the discard.

"I suppose you had a wonderful time at Hugh Moore's, and I certainly was sore not to be able to be with you. However, as this was the first time I have ever been called for jury duty I did not feel justified in asking to be excused, which was a happy hunch on my part, for Judge Morton refused to excuse nine men of the twelve who did ask to be relieved."

1898

A. A. Blanchard, Secretary, M. I. T., Cambridge, Mass.

It is hard to realize that we have had our Twenty-fifth Reunion; the old days come back so vividly. We do see the graying hair and the thinning on top, but we look into the faces of the classmates we have not seen for twenty-five years and we see the same personality, and our minds jump back over the gap of years and we talk to each other as in the days which seem as yesterday. We forget for a few days our present responsibilities and become the carefree individuals rejoicing in each others companionship.

On Friday the eighth of June at 10 a.m. the parties began moving from New York, Boston, New Bedford, and other points, all towards the focus at Saybrook, Conn. Those from New York came in the magnificent twenty-four passenger motor bus which was placed by Dave Fenner at the disposal of the class for four days. All who had thought to come in their own cars abandoned the idea when they beheld the luxury of this vehicle. This party enjoyed a comfortable, safe and rapid trip and were the first to arrive.

From Boston, Ernest Russ' auto with John Warren as guide piloted the party to Providence. At Providence, the New Bedford, Martha's Vineyard delegation was picked up and a fifty-mile per hour dash was made for Wickford, where Charley Smith had selected a place to lunch. One of the notable achievements of this meal was Delano's successful effort to pierce M. de K. Thompson's reserve, — all accomplished without the aid of pre-Volstead expedients. From there on, it was go-as-you-please to Saybrook, where we arrived after dark.

On entering the dining room at the Riversea Club we saw a distinguished looking group of men. As soon as the eye became accustomed to the lights we picked out, Byam, Ed Chapin, Bodwell, Al Davis, Danforth, Edgerly, Kaufman, Lansingh, Allston Sargent, Shedd, Streng and Paul Wesson as youthful looking and no stouter than on the day in ninety-four when we assembled in the halls of Rogers on the birthday of the Class of Ninety-Eight. We also saw a great many stout and also distinguished looking men, but we stepped closer to look each one in the face and found the disguise of age and dignity to fall from everyone. Charley Winslow, Edgar Weimer, Bob Wallace, Roy Peavey, Paul Johnson, Lester Gardner, Dave Fenner, Robert Daly, Roger Babson, in spite of greater breadth, we recognized at a glance; but we had to look in the eye George Anthony, Henry Belcher, Robert de Golyer, Ernest Ayres, Jack House, Herbert Lord, Charlie Pease, and John de Loss Underwood, before we could get a clear vision of the well-known personalities.

We don't believe any of the Boston, New Bedford, Martha's Vineyard contingent was difficult for the New York and Western crowd to recognize. Elliott Barker, Ernest Russ, and Maurice Delano, to be sure, have put on flesh and look prosperous, but they always did look prosperous and their genial personalities would shine through any disguise. Doc Wright, John Warren, Charlie Wing, Thompson, Fred Dawes, and Blanchard must have been obvious to all at first glance.

Later arrivals comprised Colcord, Stevens, and Cottle who arrived in George Cottle's car Saturday morning. Colcord is not in the slightest disguised by a beard and Cottle, in spite of the bare skin mostly showing on top of his head, was pronounced the most youthful looking of the class. This is W. W. Steven's first appearance at a reunion and we had to look pretty sharp at this man who has carried big business and engineering to the far off quarters of the world to recognize in him our old classmate; but the recognition was there and he also made a splendid caddie. George Treat was just landing on his return from a tour around the world and our enterprising chairman had sent a telegram to meet the steamer appraising George of the reunion; so he walked in on us Saturday afternoon. Dick Brown did not arrive until Sunday morning. Doctor and Mrs. Murlless motored from Holyoke, Mass., and Osgood and Mrs. Osgood motored from Stephentown, N. Y., Sunday morning.

Saturday morning before most of us were up, George Anthony is said to have plunged into the sound; anyway, he bore off the trophy of the swimming prize. Bob Wallace also donned a bathing suit and looked at the water from the edge of the wharf. Tennis and golf occupied the forenoon; some performed, others gave instructions from the side lines and caddied. We want particularly to testify to the efficiency of Al Shedd as caddie boy. The tennis prize went to John de Loss Underwood and the golf prize to Howard Bodwell. Afternoon saw the line-up of the baseball game.

The final score of 15 to 4 in favor of Martha's Vineyard in five innings bears testimony to Del's unimpaired pitching arm and to Home Run Barker's ability with the stick.

Saturday evening the ladies dined early and the room was cleared for the Wild Life of Lebanon and other places. Our Colonel Bob who led the Pop Gun Parade in 1913 and the regiment with real guns in 1917-18 was toastmaster. He omitted nobody but made each speak for himself, allowing no one, however, to talk for more than three hours. M. deK. Thompson made the shortest speech and Faneuil Newtonville Sargent made the longest. In fact, Sargent, dissatisfied with his turn well down in the alphabet, tried to talk when Roger Babson was called. Roger usually remembers all the way stations of the B. & A. between Wellesley Hills and its principal suburb, but in the indignation of the moment he remembered only Newtonville and Faneuil. However, he shut Allston off and made probably the most notable speech of his career. Peavey had been obliged to leave before the dinner and many wondered if it were from fear of seeing Roger's downfall. However, he need not have worried. Roger rose to the intellectual level of Ninety-Eight on gala day. If you have listened to him talking finance by radio and and did not believe he was capable of it, you can ask anyone who was at the reunion class dinner. Ninety-Eight has the honor of being the only class with two members on the Technology Corporation: Lansingh and Gardner probably learned much at the reunion which will benefit Technology.

At our Fifteenth Reunion, Honorable Edgar A. Weimer, Mayor of Lebanon, Pa., talked his entire three hours and showed how a man of the intelligence of Tech graduates owed twenty per cent of his time to the community, himself being a notable example. Since 1913 he has acquired a new honor as Director of the Wild Life League of Pennsylvania, and our class considered it appropriate to bestow on him the title of Wild Life Edgar. He confessed to be totally

THE constantly increasing number of Technology men who make this bank their bank is a result of the cordial relationship existing between our officers and depositors, and the friendly interest and spirit of service shown by our employees.

in in

Manufacturers National Bank KENDALL SQUARE, CAMBRIDGE

1898 Continued

devoid of a sense of humor and if he could not talk seriously he would have to sit down. Great applause and cries of Wild Life prevented, and he chose obedience to the law as the theme of his discourse. If men of the high intelligence of Ninety-Eight set the example of observance of even such an obnoxious law as the Volstead Act, the masses, for whose benefit the law was designed, would cheerfully fall in step in respecting it. We don't believe Edgar when he says he has no sense of humor. Had he none, he could not have stood the kidding he got, but he stood it and got his message across, and much more effectively because of the kidding; and we believe that it will stick just as his 1913 talk stayed by us and bore fruit in school committees and town councils and countless non-remunerative public service jobs.

Charlie Winslow is the most finished speaker of the greatest class graduated from Tech and as such he was chosen to present the message from the Alumni to Dr. Stratton at his Inauguration as Tech's new President the following Monday. He added further to his laurels by winning the bridge prize at the reunion.

Sunday was a quiet day, devoted to tennis, golf, reminiscences, greeting the late comers, saying farewell to those who had to leave early, and getting acquainted with the ladies who graced the occasion: Mrs. Allyn and four children, Mrs. Anthony, Mrs. Barker, Mrs. Belcher, Mrs. Bodwell, Mrs. Lansingh, Mrs. Murlless, and Mrs. Osgood.

Monday morning those who were left played golf and shortly after lunch started for home. Everybody had a good time and voted that the chairman of the reunion committee, Elliot Barker, deserved the greatest credit,—enough events planned to keep everybody interested, not too much to interfere with the main purpose of a class reunion, of renewing the comradeship of our student life. To everyone who came, gratitude is due for making the occasion a success, to all who could not come, much sympathy is extended for missing a grand occasion, and hope for better luck on our thirtieth and so on to our fiftieth and seventy-fifth. Everyone present pledged himself to come to all succeeding reunions and this will certainly make a splendid nucleus for the others.

The foregoing was sent in and put in type last June, but it just failed of insertion in the July issue of the Review for lack of space.

Norman Watkins from Honolulu dropped in a few days after the reunion. He was greatly disappointed at not getting to the reunion but affairs at Wellesley College prevented. His daughter, Louise, was just graduating and his other daughter, Hilda, finishing her Sophomore year. He talked most interestingly of the political and business situation in Hawaii as he is well qualified to do in view of the prominent part he has played in both. He is at present Vice President and General Manager of the Pacific Guano and Fertilizer Company of Honolulu, San Francisco and Los Angeles. He has been a member of the Hawaiian House of Representatives for six years, a

Chairman of the Liquor License Commission for four years, a Secretary of the Board of Harbor Commissioners for eight years, and U. S. Shipping Commissioner, Port of Honolulu. During the war, he was President of the Hawaiian Vigilance Corps and American Defence Society.

Since the printing of the Class Book, C. S. Hurter has been elected to the American Institute of Mining and Metallurgical Engineers.

The following clipping from the Pittsburgh Press tells of the further responsibilities given to one of our classmates in the educational profession:

"Frederic Lendall Bishop has been appointed Dean of the school of mines of the University of Pittsburgh. Dean Bishop will also continue to serve as Dean of the school of engineering, which has been under his direction since 1909.

"In announcing the appointment, Chancellor Bowman emphasized the importance of the school of mines to Western Pennsylvania in training men for the oil, gas and bituminous coal fields, as well as for work in petroleum, geology and metallurgy.

"Dr. Bishop is a graduate of the Massachusetts Institute of Technology, Class of 1898, and received the degree of doctor of philosophy from the University of Chicago in 1905."

Colonel Harold W. Jones had hardly finished his enormously responsible war service in France when he was sent by our Government to the Philippines. A letter just received from him is of interest to print in full: "Your letter has just reached me and needless to say it was a disappointment to me that I couldn't be in on our quarter-century meeting. The distance, 10,000 miles you will agree, was an obstacle that couldn't very well be surmounted. My three years will be up in December and then I am going home; it may be to Boston if I have my way, but thus far the matter isn't settled. Perhaps when the Thirtieth Anniversary rolls around I shall answer present.

"I have been in the United States so little since 1917 (only a year and three months) that I feel rather like a stranger. Just think, I haven't heard any radio and I haven't experienced prohibition!

"Mrs. Jones and I have planned to leave here in December to return some time in April by way of Borneo, Java, New Guinea, Siam, Indo-China, Peking and Japan, but we may not be able to visit all the places mentioned. I have an invitation to hunt tigers in Annam, but as the gentleman who desires my company wishes to shoot them on foot, scorning the comparative safety of an elephant, I have declined. I would not mind shooting a tiger with a cannon from the Woolworth Building, but I must respectfully but firmly refuse to be made into cat's meat for any Nimrod who ever lived. Still I am a bit sorry to miss the fun, for I am sure my friend will be able to carpet his floors with tiger skins, since he has already killed four lions and several elephants and has an arsenal of the most murderous looking weapons I have ever seen outside of some of the museums.

"We are just about in the middle of the rainy season now and the rivers are so high that we often can't get very far from home. Manila was cut off for about two weeks this July. We live sixty-five miles from Manila and frequently drive in, as the roads are fairly good. The political situation is rather complicated now, but the violence is mostly in words. General Wood does not please the politicians and they won't play any more. What they want is independence and when they get it — watch the value of the peso which is now above par and worth more than our money — the only money that tops the American dollar. And when I came out it was 13% discount! 'Nuff said! That's that, I guess. I hope to see you within a year."

Gorham P. Stevens, who is Director of the American Academy at Rome and who took charge of the American Red Cross work in Italy during the war, was given the honorary degree of Master of Arts by Harvard last June.

The Secretary recently met a charming young lady who proved to be a high school classmate and furthermore a member of Babson's Organization at Wellesley Hills. The Secretary expressed his delight at the way Babson unbent and made himself a real human jovial fellow at our class reunion, and he was assured that Babson was always that way in his organization. Babson himself is the hardest working member, but his geniality, joviality, and magnetism inspires the enthusiasm, affection and loyalty of all his workers.

Elliott Barker, who keeps in touch with the electrical power developments, has just sent in a clipping to the effect that Louie Streng has been appointed Vice President of the Louisville Gas & Electric Company. Streng has been with this company for ten years, having previously filled the post of Chief Engineer and General Superintendent. At the reunion, Streng was the same modest but companionable fellow as in the days of the class at Tech and he smoked black cigars and strong pipes just as continuously.

The Class Secretary prepared a paper to read at the Forum at the Eliot Church, Newton, last Winter, on The Unity of Science and Religion. Somehow it seemed to strike a responsive chord in many of the hearers and since then the paper has been printed in The Tech Engineering News and in The Christian Work of August 11, 1923.

1901

ALLAN WINTER ROWE, Secretary, 295 Commonwealth Ave., Boston, Mass.

It is with some small measure of reticence and trepidation that your Secretary resumes his compilation of facts and inferences pertinent to class affairs, for publication in the Review.

As some of you may have noticed in the last number the modest screed submitted by the writer was subject to an acid, and, in fairness it must be said, entirely unwarranted editorial comment. Far be it from the writer to take umbrage at any constructive criticism. But unfortunately the editorial interjection may not be placed in this category.

HOUSING COMPANY ENGINEERS

Specialists in

RESIDENTIAL CONSTRUCTION

Developers of

GUNSTONE
The Modern Way to Build

Contractors for Concrete Forms, Cement Gun Work, Rock Drilling and Masonry Removal. This brief statement is offered to the members of the class as an explanation of inhibitions which may possibly be observed by them, in the future-

Since writing the last class notes, many interesting data have been received from various members of the class.

From Jack Eveland comes a note from Mexico City informing the Secretary that he is back in his earlier activities and inferentially entirely restored to health.

He reports that Arthur Constantine is also a resident of the capital of our contiguous Sister Republic, and adds the pleasing intelligence that Arthur is married and has a family. To those of us who remember tenderly the shy, gracious and charming female impersonations for which the Walker Club was much in Constantine's debt, this word of his whereabouts will be most welcome.

Your Secretary, still a devotee of the gentle art of philately, rejoices in a full set of the new issue of Mexican stamps, which he owes to Jack's courtesy. The latter's comment on the objects of interest there portrayed will be sent by your Secretary to any brother philatelist on request.

Bob Williams, still with the Submarine Signal Co., varied his usual European trip by a visit to Cuba. Only the geography is different: the opportunities are equal. Bob reports meeting Jim Monahan, looking well and prosperous. He also encloses a clipping concerning Frank Driscoll, which, as it was probably confined to the local papers, will have escaped non-resident members of the class. The statement is briefly an announcement of Driscoll's suicide, following apparently a period of business and mental depression. Your Secretary will endeavor to secure further facts, before his next report.

Billy Farnham continues as traffic engineer for the Telephone and Telegraph with headquarters in New York.

The writer quotes direct from the report of Fred Davidson. His present address is Cupertino, California, R. F. D.; and he gives as his present occupation the stimulating caption of motor tourist. "Since last August my wife and I toured from Philadelphia through Pittsburgh, St. Louis, Kansas City, Denver, Santa Fe, the Navajo and Hopi Indian Lands to Los Angeles, San Diego and up the coast, to our present situation near San José... This Spring we spent a month on the Mojave Desert and have just returned from two weeks in the Yosemite Valley. We leave this week for Lake Tahoe in the high Sierras. Expect later to go North, to the Mt. Shasta country and Crater Lake. We travel with full camping equipment and so go anywhere regardless of railroads or hotels." To your Secretary this sounds like a most alluring program. It is to be hoped that Fred takes advantage of his wanderings to look up members of the Class of '01, who, the writer is sure, will have a warm welcome awaiting him.

Our President (not Cal but Freddie Boyd) writes with that touch of modernity which is perhaps his most attractive and endearing characteristic, "Yes, we have no interesting news, today." To one privileged to reside in the same town and therefore, occasionally cognizant of Freddie's activities,

the above is a crass understatement.

Al Higgins writes from Chicago that he was to be in Boston in early September, and promises to report and give his news verbally. Up to the present we are still straining our eyes to the West, hoping to discern in the lambent glow of the setting sun the robust and well-remembered figure of our first graduate Class Secretary. 'Till now, disappointment only has been our lot.

Teddie Taft writes that he is just completing his nineteenth year at Tech since graduation. Nineteen from twenty-two by a simple act of arithmetic, coupled with an elementary cerebration, leaves three. What we want to know is, what happened then? It sounds suggestive.

Horace Johnson, having broken through the silence of more than two decades, erupts once more — an apt and reasonable thing for one who lives in Honolulu — and conveys the glad intelligence that he has two boys about ready for Technology, one of whom enters Tech this Fall. The other reports next year. If the Hawaiian tradition be maintained, the Freshmen swimming team and later Varsity should be considerably enriched. Mindful of the recent experience of Yale University, the writer could wish that more Tech men had migrated to the Hawaiian Islands and produced a second generation full of aquatic prowess. Horace has charge of all the technical work in connection with thirteen sugar plantations.

Bill Pepperrell states briefly and without ostentation that he is still immured in his Post Office Box with a common treasurer. The reference is undoubtedly to an attempt of your Secretary to convey information to the other members of the class; but there is a mystery here. Personally, I should have thought that a year's association might have done something to refine the colleague; evidently, drastic measures are necessary.

1902

FREDERICK H. HUNTER, Secretary, Box 11, West Roxbury, Mass.

BURTON G. PHILBRICK, Assistant Secretary, 585 Boylston St., Boston, Mass.

During the Summer very little information concerning classmates has reached the Secretary. The New York section of the class held a dinner dance for the ladies at the New York Athletic Club, Travers Island on September 15. As yet, no report of the affair has come through to class head-quarters. We expect to publish an account in the next issue of the Review.

Ken Lockett declined re-election as Vice President from Chicago, an office which he has held since its institution, and at his suggestion, which met with the unanimous approval of the Executive Committee, Les Millar was chosen to represent the class for the Windy City.

ESTABROOK & CO.

SOUND INVESTMENT SECURITIES

15 State Street Boston 24 Broad Street New York

HARTFORD

SPRINGFIELD

PROVIDENCE

NEW BEDFORD

1902 Continued

Sam Lind has been appointed Chief Chemist of the Bureau of Mines of the Department of the Interior, succeeding Dr. Richard B. Moore. Lind took up his new duties at Washington on July 1. We quote the following from "Rock Products," which seems to think well of our classmate.

"Dr. Samuel C. Lind has also had very good training in scientific work and extensive experience in the work of the bureau. His education included study at Washington and Lee University, a degree from the Massachusetts Institute of Technology, a Ph.D. from Leipsig; later he worked at the University of Paris and the Radium Institute of Vienna. When in 1912 he entered the bureau as Physical Chemist he was acting as Assistant Professor of chemistry at the University of Michigan. His chief work has been on radio activity, radium extraction and measurements; the influence of radiation on chemical reaction; kinetics of chemical reaction, and the relations of gaseous ionization to chemical reaction. He is also the inventor of the well known interchangeable electroscope which bears his name."

Bourneuf is with Skillman & Sunderland, 1042 Little Building, Boston, Manufacturers' Agents for a large number of building specialties and materials including various makes of fire doors. Bourneuf's share in the game includes, both the estimating and laying out of installations.

Claude Patch has severed his connection with the Aberthaw Construction Co., to take up work with the Morton C. Tuttle Co., 101 Milk Street, Boston. Mr. Tuttle has been a partner in the Aberthaw Co. for many years and now starts his own construction company in which Patch will no doubt have an active part. The new concern will remove soon to offices in the Park Square Building.

With regret we received word of the death of James A. McAllep, but no particulars accompanied the report. McAllep has not been heard from directly for a number of years and when last reported was in Mexico.

1904

HENRY W. STEVENS, Secretary, 12 Garrison Street, Chestnut Hill, Mass.

Amasa M. Holcombe, Assistant Secretary, 3305, 18th St., N. W.,

Washington, D. C.

After a long rest of five months, the Secretary resumes his bimonthly attempt to make a respectable showing in these notes. Any of you readers who have ever attempted anything of the sort, know with what joy he approaches the task. All others doubtless picture the Secretary beaming with happiness as the words simply flow out of his pen, while he struggles to find room for all the items of news which he has to chronicle. For the benefit of the latter class, the Secretary simply states that he wishes Summer lasted all Winter.

To begin with, the Secretary sincerely hopes you have all enjoyed the past Summer and vacation season as much as he has himself. As these words are written a month before you read them, Summer has just finished and such sentiments are in order.

The biggest event occurring since the last edition of '04 notes, was the annual reunion held at the Wianno Club on June 22, 23 and 24. Consequently, a brief report of that affair is in order. As in past years, the faithful began to gather at the Engineers' Club about noon on the 22d. Ed Parker, Dick Hartshorne and Charlie Stevvins agreed to meet at the Parker House (corner of Tremont and School streets, not Ed's residence) and ride up in Ed's Marmon. (More about the Marmon later.) At periods varying from half an hour to an hour and a half after the appointed time, one after another of the trio called up the club and admitted that he had missed the other two. They all arrived eventually, and the following party enjoyed Mert Emerson's hospitality at lunch: Dennie, Ferris, Homer, Parker, Munster, Haley, Sutton, Sanborn, Gunn, Haunes, Hartshorne, Stebbins and the Secretary. Just as dessert was being served, in came A. P. Parter, sustaining his reputation and living up to the tradition he established in his student days.

As soon as lunch was over, the start for the Cape was made and by 6.30 all the crowd had reached Wianno, where they found Phil Sweetser, Don Galushia, Chick Emerson and Harry Kendall waiting for them. Earl Cunningham arrived soon after and about the middle of the evening Mert Emerson, Zens Roberts and Jack Draper made their appearance, they having been unable to leave Boston until late in the afternoon.

The evening was spent in a sort of "Old Home Week" style in the room occupied by Gus Munster, Bob Dennie and battalion of "live soldiers." The military detachment was centainly well controlled by Generals Munster and Dennie, who rushed up reserves whenever necessary. About eleven-thirty, the Secretary was called to the 'phone and a weak voice inquired if it were too late to get put up for the rest of the night. It was Bob Palmer, who had driven up from New York that day, had lost his way and was still several miles from the club. He was assured that he still had plenty of time and soon arrived, completing the roster for the first day of the reunion.

The Secretary neglected to state that Gene Russell was also present, the Secretary having found him marooned at the corner of Washington Street and Massachusetts Avenue, Boston. Gene had evidently started to walk down the Cape. He was about all in when rescued, but a drink of ice-cream soda at Ply-mouth (as Gene pronounces it) worked wonders, and he was his usual self upon reaching Wianno.

We were unable to occupy the Tiffany Cottage where we were quartered the past two years. This circumstance nearly got Dave Sutton in wrong, as he assumed we would have the same quarters as the notice stated. How-

ever, Dave beat a hasty retreat before the occupant of the room awakened and no harm was done.

No '04 Reunion has ever been held yet upon which no rain fell. So old Jupiter Pluvius (whoever he is) arranged a lovely rainstorm for Saturday forenoon. This ruined the plans of the golf committee, and the morning was spent in card-playing, putting side-curtains on automobiles, telling yarns, and listening to Gunn relate some of his European experiences. About lunch time, Ingram, Magnuson, and Bill Anthony put in their appearance.

After lunch, the rain ceased and the real golf enthusiasts went out and wet their feet, while most of the others went out and watched them do it. The Ancient and Royal Order of Woofers met the golfers at the ninth hole and assisted them in playing the lake. The golfers all eventually got a ball across the lake, but the A. R. O. W. were well satisfied with their work, as many a merry splash in the water resulted.

On the arrival at the club house after the golf, Dan Comstock was found sitting on the veranda wondering if he had found the right place. He was immediately made most welcome and his advent completed the roster of the 1923 Reunion, making a total of twenty-seven.

After dinner Saturday evening, the annual class meeting was held. Many letters were read from classmates unable to be present. None were missed more than Buck Langley, the choir leader of the class, and in his absence the vocal efforts of the class were not much to brag about.

The matter of the next reunion, our twentieth, was brought up and formed the subject of some discussion. It was the decision of those present that the matter be left in the hands of the Secretary, with power to appoint the necessary committees to assist him in putting over the biggest and best celebration yet. So the Twentieth Reunion is on the fire and brewing, and preliminary information will be forthcoming before long. As this publication does not yet reach the whole class, the Twentieth Reunion information will be broadcasted through other mediums. After the business meeting was over, the gathering listened, for nearly two hours, to a most interesting talk by Selskar Gunn, on European conditions as he had found them in his work with the Rockefeller Foundation.

Sunday was a beautiful day, and breakfast was dispatched in short order. Practically the entire personnel of the reunion repaired to the golf-links, the majority to play, and the remainder to caddy or look on. The feature match was between Hump Haley and Gus Munster, by two touchdowns and a home run. Haley made three sacrifice hits on the water-hole, but got a three bagger in the same inning. Munster's winning run was made with two down in the ninth.

The last official gathering of the reunion was at lunch on Sunday, and this was rather long-drawn-out, as the golf session was quite prolonged. As soon as lunch was finished, the sad task of packing up began and the exodus

STE

Robert A. Boit & Company

Insurance
OF ALL KINDS

40 Kilby Street

Boston, Mass.

33

was soon under way. Until recently, it was supposed that the homeward trips were uneventful, but the Secretary has received a poem titled "The Cruise of the Blunderbus Marmon" which would seem to indicate that one party had some trip.

The Secretary has had this poem examined, but is unable to determine whether it is written in iambic pentameter, hexagonal gasmeter, free-verse or flowing prose. The author prefers to remain unknown, and he cannot be severely criticized for that. However, the Secretary is of the opinion that the author can sell Oldsmobiles or wrought iron pipe more successfully than he can write poetry.

The only remaining thing to say about the 1923 Reunion is that it was a success as usual, and that everybody attending enjoyed every minute of it.

The reunion notice drew the following letter from Peacham Paine:

"Your comment in the May number of The Technology Review occasions these few words from me, especially since last week I had the pleasure of spending two hours in Santa Barbara with Volts Ovington. He is the same old Volts, has become a most enthusiastic Californiac, and has become engaged in the California king of outdoor sports, namely, subdividing and selling real estate.

"We learn that both of us are figuring on a trip East during the Summer of 1924, and we hope that we may attend the twentieth class reunion. To that end I am also writing today to Selskar Gunn who is now in Paris, with the hope that we may lure him into being present also.

"My permanent address is 607 Park View Avenue, Los Angeles, Calif. In a few weeks I will be leaving the Shell Company, with whom I have been situated as Vice President. The long absences from home, by reason of the demands of the petroleum business, a desire to give a greater measure of attention to my few personal interests, and especially a hankering for a greater indulgence in those excursions which may be found so abundantly in California, have all operated to move me out of corporation work."

Soon after the arrival of Paine's letter, came a note from Ovington himself, corroborating the information given by Paine. Ovington's letterhead reads, "Casa Loma Subdivision" and gives his address as 1011 State Street, Santa Barbara, Calif. Volts hopes to be with us on our Twentieth Reunion.

Frank J. Severy is located in Hollywood with the Union Oil Company of California. He says, "Tell the boys when they come to Hollywood to look them over, to stop and see me and maybe I can show them some new ones, as I have seen them all grow up here in the past ten years." In case of need, his address is 6011 Hollywood Boulevard, Hollywood, Calif.

Harold H. Gould is now city editor of the Boston *Traveler*.—J. F. Blackie has left the Coke & Gas Company in Milwaukee, Wis., where he has been for several years, and is now with the Newport Chemical Works, Inc., Passaic, N. I.

Dean E. A. Holbrook of the Pennsylvania State College has been assigned for work under the President's Coal Commission. Holbrook was formerly Assistant Director of the U. S. Bureau of Mines, and was especially familiar with coal, so that his services are very valuable to the Commission.

As Ethel Barrymore says, "That's all there is. There isn't any more."

1906

J. W. KIDDER, Secretary, 50 Oliver St., Boston, Mass.

EDWARD B. ROWE, Assistant Secretary, 108 Water St., Boston, Mass.

When we had our Fifteenth Reunion at Oswegatchie in 1921, all present agreed that we should hold another one at the same place within a year or two. None was held in 1922 but when the air began to get warm and balmy last Spring, the memories of Ralph Patch's "Zin Tabs," and Ned Rowe's "Robin Letter" aroused the particular portion of the Secretary's conscience which is devoted to '06 affairs and prompted him to call an Executive Committee meeting to discuss the prospects of a 1923 outing.

After due deliberation by the Executive Committee, that august body (as august as could be without Charlie Wetterer), concluded to hold an outing at Oswegatchie on June 21 to 24 inclusive and further, it was agreed to make it a mixed party.

Notices were sent with suitable reply cards urging those with any chance of attending to return the card for further notices. The responses to the first notice were not received in very large numbers and as the twenty-first approached it was evident that the party was going to be a very select one. In fact, there were times when we questioned the wisdom of proceeding with our plans. In spite of discouragements, the fact that some of the ladies were looking forward to participating in their first 1906 outing was a very important factor in our concluding that we would go through with our plans notwithstanding the small attendance.

Thursday morning, the twenty-first, three loyal couples started for New London, namely, Mr. and Mrs. F. A. Benham, Mr. and Mrs. H. A. Ginsburg, and Mr. and Mrs. Secretary. Our conveyances consisted of two Super-Six sedans and our route took us via Worcester, where we stopped for lunch.

The Oswegatchie House was reached in the latter part of the afternoon. Upon arrival, our party was much augmented by Sam Nash, who had come over the road from Springfield.

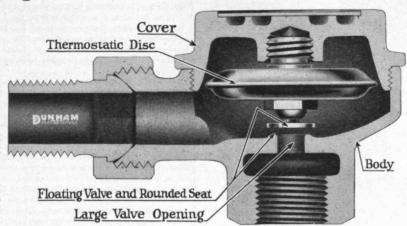
Headquarters were established in one of the cottages reserved for the married folks, with a special cottage down on the water front for the single men, which Nash had the exclusive use of for the time being.

Thursday evening was spent in quiet chatting on the piazza. The ladies were delegated a special committee to invite Nash into the circle, as considerable persuasion was required to counteract his bashfulness. During the

The Improved Dunham Radiator Trap

Improvements in Disc

- 1 Increased life due to change in curvature design which strengthens the expansive qualities of the disc. Thickness of disc metal has also been increased.
- 2 Increased lift allowing freer passage of condensate and foreign matter.
- 3 The change from a fixed to a floating valve on the disc increases the assurance of square seating of valve.



Improvements in Body

- The rounded valve seat prevents deposit of foreign matter on seating surface and makes more positive the tight, flat seating of valve—even when dirt is present in normal quantities. The rounding of the seat also reduces capillarity.
- 2 The enlarged diameter of the valve seat hole increases the operating capacity of the trap and permits larger pieces of scale and other foreign matter to pass.

TWENTY years ago the Dunham Radiator Trap revolutionized vacuum steam heating.

Imitators sprang up ad libitum, but not one added an original idea to their product—each seemed controlled by the thought to build a trap *similar* to Dunham.

It has always been the Dunham policy and record to be several jumps ahead of any imitator, and in offering the No. 1 Radiator Trap here shown, we maintain that record. The Dunham Trap was the first fluid Thermostatic Radiator Trap, and the present trap is the first trap with the floating valve and other features here described.

The first Dunham Trap put into service and this improved trap of 1923 differ in no way in principle or method of operation. The changes leave these exactly as they existed in 1903. The improvements in the disc and the body are clearly set forth in the points enumerated above, and in the illustration shown, which is an actual size reproduction of the No. 1 Trap.

DUNHAM HEATING SERVICE

C. A. DUNHAM CO., CHICAGO
Boston Branch Sales Office
136 Federal Street . Telephone, Main 7663

F. D. B. Ingalls, '01, Mgr.

1906 Continued

evening, the Secretary had to stand considerable kidding as to the size of the party, etc. Every time an automobile rolled up to the hotel our necks were craned to recognize possible classmates, but there were no further arrivals during the evening. The outstanding feature that night was the fact that Frank Benham became so enthusiastic over class affairs that he paid his dues, which enabled the Secretary to order a round of drinks for the entire company.

Friday was the day of the Harvard-Yale boat race. We went over to New London in the morning, spent the forenoon by doing the shops (including tonsorial and beauty), watching the boat race crowd assemble and then meeting the noon train from New York to welcome Andy Keleher. Andy arrived as per schedule and was escorted back to the hotel by the entire delegation. His arrival cheered Sam Nash considerably, as the latter was saved from a hermit's existence in his little cottage on the shore.

Early Friday afternoon we returned to New London to see the boat race. We embarked on one of the Sound steamers which took its place up the river about an hour before the race was scheduled to start (7 o'clock daylight time). As a matter of fact, the starting gun was not fired until 8 o'clock, the hour's postponement being due to rough water.

The race was all Yale and consequently not as exciting as the '21 affair, but any Harvard-Yale boat race as a marine spectacle is certainly one never to be forgotten and this one was enjoyed, particularly by those who witnessed one for the first time.

We were very late in getting back to Oswegatchie and on our return we were served with a special dinner which lasted until midnight, after which we went to the Casino and danced for an hour.

We had looked for Mark Place to arrive Friday afternoon, although he had not arrived when we left for the boat race. When we returned Friday night, we found his brother at the hotel expecting to meet him there. As a matter of fact, Mark did not appear at all, so his brother left in the morning. We were all glad to include Mr. Place in our party and we have in mind opening up future reunions to brothers of '06 men if it always works out as well as it did this time.

Saturday morning under the guidance of Nash some of us visited the Connecticut State Farm at Niantic. This is an institution for women and girls serving court sentences of several years' duration. Institution is not a well-chosen word to describe it, for it is evident that the place was designed and conducted to be as little like the usual institution as possible. The farm was located upon a large tract of land a mile or so from the nearest town. With one exception all the buildings belonged to several farms which were combined to form the State Farm. Practically all the work was done by the women and girls under the guidance of women supervisors. It sure was a treat to see the head farmerette drive a flivver and to talk with the young lady, a graduate of the agricultural course at Cornell, who had charge of the

cattle and dairy. The Superintendent of the Farm was Miss Petersen, a young woman of most charming personality, with original ideas and an abundance of enthusiasm for her work and who conducted the place with the object of giving the inmates an uplifting, homelike atmosphere in place of the usual dull institutional existence.

Upon returning to the hotel for lunch we found Mr. and Mrs. Ralph Patch were there. This brought our total attendance up to six sixes and four ladies, a grand total of ten.

After lunch we motored over to Eastern Point and along the Connecticut Shore for a few hours, returning to the hotel in time for dinner and the dance in the evening.

The party disbanded Sunday morning, Andy Keleher starting over the road with Nash towards Springfield and the rest returning to Boston via Worcester. In disbanding, all agreed that we had enjoyed a fine time and regrets were expressed that more could not have enjoyed it with us.

Sidelights on our Select Outing:—Most of the fellows who were at the Reunion in '21 indicated that they would have come this year if it had been possible, in fact, quite a number were expected to be there, but were prevented at the eleventh hour.

Mr. and Mrs. Wetterer and their son expected to be there right up to the last moment, but pressure of the Stone & Webster business kept them away.

Charlie Breitzke was another one who had to pass up the party at the last moment.

Abe Sherman expressed his regrets as it was a busy time in the Sherman household. To quote from his letter: "It comes at a pretty busy time, being the time of graduation of our Class Baby from the grammar school and immediately thereafter her leaving for a summer camp, all of which means a good deal of work and makes it quite necessary that her parents be around home."

We counted on Herb Whiting even after we arrived at Waterford, but were disappointed. Herb was in Boston about the time of the outing and expected to stop off on his way back to New York. Illness of his mother prevented this plan from being carried out. We were even hoping to meet the Mrs. Whiting to be and therefore were doubly disappointed.

With references to the same subject we would add that the following wedding announcement has since been received: "Mr. Herbert Stockwell Whiting and Miss Alma Elizabeth Borg, announce their marriage on Wednesday, the eighteenth of July, one thousand, nine hundred and twenty-three, at the Marble Collegiate Church, city of New York.

Mark Place, who is Secretary of the City Service Commission of the city of Milwaukee, attended a convention in New York about the time of the outing. The convention program did not permit him to get away until

Friday noon, when he started for New London and saw the race. After the race he ruturned to New Haven hoping to meet his brother who had come to Oswegatchie, as explained above. The mixup resulted in Mark missing out entirely, which seemed particularly hard luck as he has not participated in any class affairs since 1906.

Henry Ginsburg's activities were limited by the fact that he underwent a serious operation this Spring, from which he is recovering as well as could be expected.

Others who wrote letters of regret at being unable to attend were George Furness, Herbert Ball, E. B. Pollister, H. R. Philbrick, Fred Earle, A. L. Sherman, Ernest Smith, Pete Stanley and Harold Coes. The Secretary surely appreciates the interest these men displayed in sending these personal words and he feels sure that these people would have attended the outing had they been able.

The few of us present were not as active in the sports line as we were two years ago. Do not make the mistake of ascribing this to our advancing years, but rather to the small number and the fact that we were hosts to the ladies. Several swims were enjoyed, including a couple of before-breakfast-dips. Some tennis was played Saturday afternoon. Frank Benham brought his golf clubs but could not find an opponent, so they were not used.

Our Twentieth Reunion will come in 1926, less than three years away. Appreciating that one of the reasons that this year's party was not more successful was due to the lack of sufficient notice, you are hereby notified to plan a trip to New England somewhere around the middle of June, 1926, more of which later.

As the Review is now conducted, classes (with the exception of those having super-secretaries) are supposed to include notes only in every other Review. We have had no notes since the May Review and consequently some of the items may not be particularly recent, but we will include them, as undoubtedly they will be news to most of our readers.

This is from Jack Norton: "The following '06 men attended the banquet of the Chicago Alumni Association on April 5: (Dr. Stratton was the guest of honor and received a royal welcome from the 160 men present) C. R. Littig (still peddling controllers in Chicago), I. W. Kahn (trying to lower rents in Chicago), J. I. Banash (selling advice? in order to pay his rent to Kahn), H. C. Blake, and J. F. Norton (still trying to instruct the young and old at the University of Chicago)."

On June 26 the telephone service in Boston and some of the larger cities in New England was crippled by an operators' strike. To meet the emergency, telephone men from all over the country were assigned to the New England Company. Herbert Dean, who is with the Bell Telephone Company in Philadelphia, was here for several weeks. Since the strike, which was successful from the Company's standpoint, the Traffic Department of the New England

BARTON & ELLIS COMPANY

INSURANCE

We are particularly qualified to serve manufacturing and mercantile establishments and have many of New England's prominent corporations of this class as satisfied customers.

19 PEARL STREET BOSTON, MASS.

Company has undergone a number of organization changes. Included among these was the appointment of H. E. Darling, General Supervisor of Traffic. Darling has been in the telephone business since leaving Tech, all of his time previous to his assignment in Boston being spent with the American Telephone and Telegraph Company in Engineering and Traffic positions in New York.

The following is a clipping from the Los Angeles *Times* of July 22: "Herbert J. Mann, head of the Mann Building Company of Phoenix, Ariz., announced yesterday that he will extend his operations to Southern California. His concern will take over the firm of Walker and Allen, located in the I. W. Hellman Building, the new company to be known as the Mann-Walker Building Company.

"Mr. Mann has been engaged in building operations in Arizona for the past twelve years, and recently completed a contract with that State for construction work. He was formerly a resident of Chicago, where he was in charge of the erection of several downtown buildings, among which were the Selz-Schwab Shoe Factory, the Steel-Wedeles Warehouse and the Princess Theatre. He received his engineering education at the Massachusetts Institute of Technology.

"Mr. Theron Walker, who was a member of the firm of Walker and Allen, will retain an interest in the new company. 'For the past few years I have been making annual trips to Los Angeles,' declared Mr. Mann yesterday, 'and was amazed with the steady growth of the city. I began to investigate and determined to my satisfaction that the growth was not a boom, but steady and continued development. I have come here to locate permanently and at the present time have fourteen local contracts.'"

The following has been received from Professor Locke in regard to R. V. McKay: "McKay has consistently followed iron and steel blast furnace work, starting with the Pennsylvania Steel Company at Steelton, Pa., and continuing with that company when it was absorbed by the Bethlehem Company. Recently he has gone into an entirely different line and he is now Treasurer and General Manager of the McFadden Coffee and Spice Company, which deals in coffees, teas, spices, extracts, etc., at Dubuque, Iowa. The reason for such a radical change is that McKay's father-in-law, who was founder and President of the business, which started in a small way and was worked up by Mr. McFadden to a large business with possibilities of still further increase, died and it was necessary for some one to look after the business, so that McKay finally decided that much to his regret it would be wise for him to abandon iron and steel and go into coffee and spice. He reports that he feels satisfied with the move and while the two lines of business have very little in common, still there is little doubt but that his technical training and practical metallurgical experience will be found of value in many unexpected ways in his new occupation."

The following is a clipping from the *Apothecary*, a New England drug magazine: "Three positions of honor and responsibility in the drug business have recently come to Ralph R. Patch, General Manager of The E. L. Patch Co.

"At the annual meeting of the American Pharmaceutical Manufacturers Association, held recently in Florida, he was re-elected Secretary-Treasurer for the ensuing year.

"At the annual meeting of the American Drug Manufacturers Association, held recently in New York, he was elected third Vice President of this association.

"In connection with the mobilization of the drug manufacturing industry for the purpose of the national defense, he has been appointed Lieutenant-Colonel in the Reserve Corps, in charge of New England."

Walter N. Munroe, '06, formerly Manager of the Paris-Texas Transit Company, is now Vice President as well as Manager.

We have received a new address for George Hobson. Hobson, who is a Captain in the Army, was abroad for some time with the American Army of Occupation. His present address is 1358 Perry Place, N. W., Washington, D. C.

A card has been received from Percy Tillson announcing the arrival of Henry Charles Tillson, September 16, 1923.

1907

BRYANT NICHOLS, Secretary, 2 Rowe St., Auburndale, Mass.

HAROLD S. WONSON, Assistant Secretary, W. H. McElwain, Manchester, N. H.

Cecil F. Baker has been appointed head of the newly created Department of Architecture at University of Cincinnati, assuming his duties there in September.-Walter Bigelow surprised us all by getting married during the Summer. Probably he thought he would escape public attention by doing the act at a time when the Review was not being published, but the Secretary sees too many '07 men in Boston who know about you, Walter, for you to get by.-George A. Crane is now located with the Aberthaw Construction Company, 27 School Street, Boston, as Chief Estimator.—Edward H. Temple, Jr., also of '07, is Vice President of this same firm at the same address. John H. (Stud) Leavell has formed his own concern, the Leavell Coal Company, at Tulsa, Okla.—Harry Moody has left the Westinghouse people and is with The U. G. & Contracting Company, Broad and Arch Streets, Philadelphia, Pa.—O. L. Peabody (Peab) sailed on September 15 for a two-month business trip to England, Norway, Sweden, Denmark and Holland, representing George H. Morrill Company, ink manufacturers.—Arthur T. Remick, architect, has moved his offices to 47 West 43d Street, New York, N. Y.

1908

H. L. CARTER, Secretary, 185 Franklin St., Boston, Mass.

LINCOLN MAYO, Treasurer, 181 Massachusetts Ave., Boston, 17, Mass.

The '08 Crystal Reunion was held at West Bay Inn, Osterville, June 7, 8, 9, and 10, and was a great success. The following men were present: Bunny Ames, Boston; George Belcher, Manchester, N. H.; Harry Bentley, Chicago; H. W. Blackburn, Burlington, Vt.; Claude Brown, New York; Jimmie Burch, Dubuque, Iowa; Bill Booth, Foxboro, Mass.; Nick Carter, Boston; Burt Cary, Boston; Clarence Clark, Melrose; Lang Coffin, Newton; Tim Collins, Boston; Dick Collins, Providence; Alton Cook, Boston; Myron Davis, Boston; Hap Ellis, Boston; Toot Ellis, Boston; Paul Esten, Stoughton; Ferrandi, Hyde Park; Hobe Ferris, Akron, Ohio; Win Ford, Kingston, Mass.; George Freethy, Watertown; Pop Gerrish, Melrose; H. P. Gurney, Boston; George Glover, Lima, Ohio; Percy Handy, Boston; Sam Hatch, Fall River; Clarence Hussey, Providence; J. A. Kydd, Providence; Doc Leslie, Beverly; Arthur Longley, Chicago; Howard Luther, Cincinnati; Linc Mayo, Boston; E. H. Newhall, Somerville; Roy Norton, Vineyard Haven; Harold Osborn, N. Y.; Joe Pope, Boston; Miles Sampson, Fall River; Schriefer, Boston; Bill Toppan, Madison, Maine; Frank Towle, Boston; and Ed Williams, Rutherford, N. J.

The reunion started Thursday afternoon, June 7, and quite a few of the fellows had shown up by dinner time. During the evening, the time was spent mostly in getting acquainted, as many of the fellows had not seen each other since graduation. While the weather left much to be desired, it really did not interfere with everybody having a good time. Auction bridge was found to have many fans and as the golfers were not afraid of getting wet, the links were well patronized. Some of the more hardy, in fact, took a chance on swimming, but did not spend much time in the water.

When there was nothing else to do, we could always listen to the radio, as Gurney had brought down a very elaborate outfit. Station WNAC in Shepard Stores, Boston, very kindly broadcasted greetings to '08 and rendered the Stein Song.

Following dinner on Saturday night, the prizes for the various stunts and contests were awarded. Toot Ellis made the speeches of presentation and these recalled his former triumphs at Aberdeen Hall. We only wish more fellows could have gotten down for the reunion and hope that on our next one they will have better luck.

The first bimonthly dinner of the Fall will be at the Boston City Club on Thursday, November 15, at six-thirty. Detailed notices will be mailed later. These bimonthly dinners during the Fall and Winter should be better patronized than they are, and we hope that those of you who have not attended regularly in the past will try to get out. We are planning special attractions at each dinner and hope to revive some of the interest in bowling; which we had a few years ago.

1910

DUDLEY CLAPP, Secretary, 40 Water St., East Cambridge, Mass. No notes received from the Secretary.

1911

ORVILLE B. DENISON, Secretary, M. I. T., Cambridge, 39, Mass.

JOHN A. HERLIHY, Assistant Secretary, 588 Riverside Ave., Medford, Mass.

One of the chief pleasures which your Secretary expects to derive from his travels among the Technology alumni centers this Fall and Winter, in his new capacity as Executive Secretary, will be the renewals of acquaintance he will make with his beloved fellow-Eleveners. And right here is a good opportunity to thank again collectively the many classmates who have sent in congratulations and expressions of confidence. It is indeed gratifying to receive these.

We are quite fortunate in having a pretty good collection of news nuggets concerning Eleveners, so let's go!

R. E. Anderson, VI, is now associated with the Electric Bond & Share Company of New York as Electrical Engineer and is engaged on station design and system layout on the New Orleans Public Service, Inc., one of the company's new properties. He says he was "just too late on the first trip for the Mardi Gras, but found New Orleans a new experience, quaint and attractive." His family consists of a wife and three husky boys. The oldest boy is an eight-year-old "Western Booster," while the other two are Easterners. Andy says that "the little fellow was born in Pittsburgh when 1923 was two weeks old, but found it so smoky that he moved to New York as soon as he could travel, and seems pleased with his location."

S. Bogdasarian, IV, reports that he and O. S. Clark, II, and C. A. Mc Manus, I, attended the dinner tendered Dr. Parmenter, head master of Mechanic Arts High School in the Hub in May. Bog is now with Stone & Webster.

Eadie, Freund & Campbell, Consulting Engineers, of New York City, of whom the last-mentioned is J. K. Campbell, I, have been doing a lot of Monel-Metal installation work for Exchange Buffet, the second largest chain of restaurants in New York, feeding 100,000 people daily, which has recently opened its thirty-sixth eating place at 11 Broadway. The firm is also accomplishing a lot in the industrial field, particularly assisting in solving the problems of production confronting an industrial organization, aiming to



Get the most from your shop course by using Brown & Sharpe Tools

Accurate, dependable—last a lifetime—of great help in your shop courses—always useful later on.



BROWN & SHARPE Rex Micrometers are strong, light and accurate, with cleancut graduations that are easy to read. 1-inch size can be secured with or without a Clamp Ring, also with or without a Ratchet Stop.

At most hardware dealers



STAINLESS STEEL RULE No. 350—
hardened and tempered—is rustproof
and will not stain or discolor—accurate,
clean-cut graduations always easy to read.

Buy one from your dealer today

BROWN & SHARPE MFG. CO. Providence, R. I., U. S. A.



THE 2000 tools described in this catalog cover every shop requirement. Get acquainted with Brown & Sharpe Tools.

Send for Catalog No. 28.



"institute not only the most economic arrangement possible, but by careful analysis to bring about increased facilities for production."

M. M. Cory, I, had hoped to come on from San Diego, California, for the get-together, but was unable to. Likewise, Franklin Osborn, III, who will soon return to the States from South America, had hoped to be here in early June.

A. T. Cushing, I, has been, since mid-December, 1922, Valuation Engineer for the Packers and Stockyards Administration of the U. S. Department of Agriculture in Washington, D. C., and with Hermann C. Henrici, '06, is in charge of the valuation of the stockyards and packing plants of the country, in an attempt to cure cheaper meat for all the poor engineers. He adds that just prior to his assuming this position — on December 6, to be exact — his wife presented him with a daughter — "our first child — a future Tech co-ed." Congratulations, Cush!

P. A. Cushman, VI, wrote from Brooklyn: "I had to decide by toss whether to go to the Society for Promotion of Engineering Education at Ithaca or to M. I. T. in June. S. P. E. E. won for this year, much as I want to get back to see the 1911-ers.—Have seen Max Kushlan several times this year. He has three books to his credit in the local library, and is with Brooklyn Edison.—See Edgar Woodward frequently. Also see his name weekly in Ry. M. E. as Associate-Editor.—Met W. O. Whitney at New Brunswick, N. J., station last month. He stands by the Brunswick Refrigeration Cowell. It is a good line.—Have met Ranger, D. P. Allen, Catching, Romer, and White around these parts, but let the news get old before writing."

F. H. Daniels, VI, has recently been made a Trustee of Worcester Academy, Worcester, Mass., where he was graduated in 1905. Congratulations, Fred!

C. P. Eldred, VI, is now with the Manning Paper Company and the Manning Abrasive Co. in Troy, N. Y. He has just completed one year on the job and reports that it is "a pleasant change after eight years of teaching." He and his family are planning to vacationize in Canada in August, but could not get away for the get-together, as Cal was pretty well tied up with the erection and equipment of an addition to the abrasive factory.

Rudolph Emmel, III, was another boy who was sorry not to be able to get up here in June, but then he had quite a hike - from Chile, S. A. Here are his own words: "You know this is a sort of an out-of-the-way place down here and therefore I can't give you much in the line of news for the Review. No Tech reunions nor class dinners nor nuthin' like that. Had the pleasure of meeting Navarro, 1910 and Moreno, 1914, a short time ago. They are residents of Quito, both working for the Government, and passed through here while inspecting the proposed route of a railroad from the coast into the Orient. Watts Humphrey, 1921, was down here with us for about a year, and McIver, 1922, who came down last year is still with us. As for myself. I am starting in on my fifth year here, holding down the job of Mine Superintendent. I could tell you lots of stories of my experiences here and the difficulties encountered in running a mine in a place like this, but the task of herding five or six hundred peons is not a soothing one and when I begin to think of it my language deteriorates to such an extent that it scorches the paper. Mr. Winslow, of the Class of 1885, gave us the unusual pleasure of a week's visit in camp a couple of weeks ago. It is four days hard travelling to make the seventy-five miles from Guayaquil to our camp of Portovelo, so you will realize that it is quite an unusual pleasure to have a visitor here.

"I was in the States for about two months last year, most of the time in New York and Montana. Was at home in Boston only a short time and did not get a chance to see you. Hope for better luck next time. Best wishes to all."

William E. Fortune, I, has recently become associated with the Puritan Mortgage Corporation of New York and Boston, in the Sales Department of the Boston office.

Don Frazier, II, reminded the Secretary not to forget to tell the fellows if they come to Richmond to be sure to look him up. "We still have enough down here for a regular Stein Song," he concludes.

Pete Gaillard, VI, resigned from the Army last Fall and is now back in Washington as Assistant to the Director, Fixed Nitrogen Laboratory of the Department of Agriculture.

K. (Mike) Greenleaf, VI, writes from Detroit: "Might as well attend

to this little matter right now — though your letter was dropped on my desk not three minutes ago. Yours is the only dun that confines itself to the dollar limit — my limit — hence, I pay without question.

"Nothing startling, Dennie — except looks like a good season here. Guess I told you I am established for myself, specializing in automotive electrical repair and merchandising electrical repair parts. We represent all the responsible manufacturers in this field.

"I expect to take a drive down East this Summer and hope at that time to say 'Hello,' at least. In the meantime, regards to those of the bunch you see."

Captain Kanezo Goto, II, has returned to his native land and is now at Kaigun Daigakko (Higher Naval College) in Tokio, Japan. We, of course, have not heard from him since the terrible earthquake, but it's a cinch all his classmates hope he is safe and sound.

"M. P. (Aurora Borealis) Grossmann, III, wrote in April that he would be "fortunate enough to be sent across the water by the Company (The Atlas Steel Corporation of New York) in about ten days to see if I can absorb some foreign steel metallurgy, including the Scandinavian" Two months later he wrote from the Sarr Valley that "the Swiss Alps, Swiss Chocolate, German Marks and French Steel make travel interesting."

Bancroft Hill, I, sent in the following splendid letter in late May: "In reading the Technology Review I have sometimes felt that I should indulge in autobiography myself, so I submit the following life history.

"Having taken the railroad option of Course No. 1, I naturally drifted into the management of public utilities water companies. After four or five years of more or less success in that line of hydraulics, I ventured into the other sort of water and became Harbor Engineer of the third port in the country. I have held this position for four years, during which time I have designed two enormous terminals. The construction in one of them is now going on and the land for the other is being condemned. All 1911 men passing through this City should see this work as in one place we are constructing foundations for a bulkhead to have thirty-five feet of water where the bottom consists of ten feet of water and eighty-five feet of very soft mud."

Following Hill's letter came a most comprehensive and interesting annual report of the Harbor Board of the city of Baltimore for the year 1922. Certainly Hill is engaged in a splendid type of public service and doing it well.

C. P. Kerr, II, reports from Milford, Conn., that "things are quiet, but strenuous—unexciting but very interesting, trying to make electrolyticiron."

In his typical, breezy Western style good old Jack McAllen, III, sent greetings from Mexico, just before leaving for the States as follows: "Please change my address to The Dexter Horton National Bank, Seattle, Wash.—I have finished up here in Mexico and am going back to the States to sober up.—Ojala! that my travels will take me back there to the home of the bean and the cod.—If they do, I'll look you up and let you smell the Tequila on my breath."

Fat Merrill, I, reports that he saw Monk de Florez the other day. When he told Ted Parker about it, the latter observed, "For Heaven's sake—is he still alive?"—Thomas B. O'Hearn, I, reports that at a recent meeting of the Merrimack Valley Tech Club "plans were instituted to stir up all Tech men in and about Lowell."

A. H. Peycke, II, writes from Chicago: "The pleasure of hearing Dr. Stratton, also meeting him, at the Technology Club of Chicago on the 5th, was enjoyed by all present. Cannot help but feel that The Tech Board has picked a Winner."

Here's the contribution of Dick Ranger, VIII, from New York City: "Business is humming and I'm still on the job of getting better signals across the Atlantic. The cable companies admit we are doing 20% of all the business. We will let them change that figure next year."

J. B. Romer, V, says he is still at the Babcock and Wilcox plant in New Jersey with Pete White.

Your Secretary ran into Samuel M. Schmidt, VII, who has been "globe-trotting," as he expressed it, for about five years. He says after his journeys and labors in the interest of health-improvement for the peoples of continental Europe, he is "glad to be back on real terra firma."



Russell & Fairfield INSURANCE

NINETY NINE - MILK STREET - BOSTON

BANNER

Full Automatic Hosiery Machines

Built in all sizes from 2'' to $4\frac{1}{2}''$ diameter and all gauges for the manufacture of the very finest infants' socks, children's and misses'; ladies' work and men's half-hose.

These machines have made it possible for the manufacturer to produce the finest grade of circular knit hosiery.

Latch Needles and Spring Beard Needles are used in the construction of "Banner" machines and the latest models include the fine gauge SPLIT FOOT and the extra fine gauge SPRING BEARD NEEDLE.

HEMPHILL COMPANY

Main Office and Factory,

Pawtucket, R. I.

Philadelphia Office Colonial Trust Building Philadelphia, Pa. Canadian Office Gore Building Hamilton, Ont. Southern Office James Building Chattanooga, Tenn.

1911 Continued

Don Stevens, II, having already committed himself to act as Master of Ceremonies at another outing on exactly the same dates, was forced to send in regrets for the 1911 get-together. "I certainly would like to be with you," concludes Don, "and wish that you would express this sentiment to the Eleveners for me."

O. W. Stewart, I, in his regular monthly contribution to the 1911 notes, says that he recently saw Paul Kellogg, IX, at Niagara Falls and that "he was looking fine and says the Niagara Tablet Company, of which he is President, is doing a good business." O. W. also reports that "Guy True, I, has associated himself with several other investment specialists at 60 Congress Street, Boston, and is as sanguine as ever."

"George Robinson, '11, and Albert McNaughton, '12," continues O. W., "both Course IV men and of the architectural firm of McNaughton & Robinson, Boston, Mass., have rounded out their tenth successful business year. They have numerous large public buildings, school houses and residences to their credit throughout the Eastern states."

Harry R. Tisdale, V, reports that he has a new Willys-Knight Coupe Sedan and as an indication that he is busy, mentions the fact that during April and May he has driven it over 3500 miles. He works out from Schenectady in the interests of the American Dyewood Company of New York.

Out from Nowata (substitute not mentioned), Oklahoma, comes this message from Bill Warner, I: "No news of any interest that I can think of except that I got a hole in one playing golf a short time ago. I only play once or twice a month so am slowly getting worse. A great deal of my time has been spent away from home looking for oil production either in Oklahoma or Kansas. Am planning a trip by car south of San Antonio, Texas, within a week if the weather will permit and will take Mrs. Warner along. May be East this Summer and, if so, will try to arrange to reach Boston and see you and the rest of the fellows."

Harry Waterfall, II, said that unfortunately for friend wife and himself, all Tech reunions come at the time when he, as a college professor, is busiest, namely, during final exams. "I have no doubt," he says, "that the students would be glad to dispense with these formalities, but don't think the President would see it that way."

W. O. Whitney, II, V, writes from New Brunswick, N. J.: "Am here in New Brunswick, where I have been ever since I left Tech. Am Manager of the Marine Department of the Brunswick-Kroeschell Co., manufacturers of refrigerating and ice-making machinery. Please note that I only work in that notorious city of New Brunswick—I live across the river in Highland Park (the Post Office address is just the same, though, as if I lived in N. B.). I was very sorry indeed to hear of the death of MacKenzie. He surely was a mighty fine fellow—one of the type this world needs and needs badly.

The Class of 1911 can always be very proud to have had Mac as one of its members."

The following clipping from the *New York Tribune* of June 30 will be of very general interest to all '11-ers and particularly to the Course I men: "Erving M. Young, a contractor, was counting out a \$700 payroll last

night in a construction shanty at Twelfth Avenue and Forty-fourth Street. Two men entered. One pressed a revolver into Young's side and the other reached for the money.

"The contractor upset their plans by grappling with the gunman. The pair struggled about the place, each endeavoring to obtain the revolver, while the second hold-up man danced about them striking at Young's head with a piece of wood.

"Young's cries for help began to cause a commotion in the street and the hold-up men tore themselves from his grasp and fled, one of them stretching the contractor on the floor with a blow from the revolver butt. After his injuries had been dressed, Young paid off his men and went to his home at 55 Van Reipen Avenue, Jersey City."

1912

FREDERICK J. SHEPARD, JR., Secretary, 568 East First St., Boston, 27, Mass.

It is a pleasure to start the first letter for the new volume with a large amount of material which has been accumulating during the Summer months. Your Secretary's only hope is that the news will continue to flow in that the notes may have some appreciable length in the following issues of the Review.

The arrival of Jane Elizabeth McDonough in Pittsburgh on June 5 is noted with pleasure. Congratulations to Clarence and Mrs. McDonough are certainly in order.

It is with considerable chagrin, that an item appearing in the July Review stating that Max Mason has been elected a member of the National Academy of Science did not refer to our Max Mason. It happens that his namesake, who is a professor at the University of Wisconsin, was the man to whom this referred.

B. H. Morash, VI, writes as follows from Beloit, Wisconsin: "I have just finished reading The Technology Review of July, and the class news stirred a responsive chord, and also pricked my conscience. It would be fine if all the fellows would write in occasionally, because we cannot meet at reunions, we can at least know where the bunch are located and some particulars of their doings.

"All Summer, 1922, after returning from India, I vacationed in Nova Scotia, where the fishing was good and the balmy breezes blew, but with the approach of the northern blizzards, I left for Chicago, where the gentle (?) zephyrs from Lake Michigan did not offer much in comparison.

"I scouted around for a job, in which our good friend Tomlinson assisted, and interviewed most of the corporation presidents and their lady secretaries, as well as many publishers, and as my lists grew, so did my confusion. All were disposed to be helpful, but I commenced to feel like a football on a battlefield. Eventually, I landed in Beloit, and assisted in reorganizing a wobbly company, which ended in my being appointed Sales Manager. This is the Lipman Refrigeration Co., and we manufacture a full line of Yale Automatic Refrigerating machines, from the household unit to five tale apacity. I made a trip East and South, covering all the large burgs during May and June, and just returned from a general survey through Kansas, Texas and the Southwest. I notice Arch Eicher's comments on the wonders of Shreveport in Winter. Sure, that's the season there, but not July, unless you wish a continuous Turkish bath. I came up to Little Rock, Ark., and started to fill the bath at two a.m., but when I found the cold (?) water 106 degrees, I lost my nerve.

"I saw Brackett and Applequist in New York for a few minutes when in New York, but did not connect with any other '12 men on my trips. I am planning a trip to California and the Coast this Fall. Seeing the country is one advantage in this job.

"Well, Shep, if any of you want a real machine for the household, guaranteeing the best ice cubes for your nightcap, we have them. I insist on buying only meat, butter, flowers, and meals refrigerated with Lipman machines and only accept drinks cooled by the same. You will then get the best and prolong your life. Best regards."

Chester L. Dows, VI, is heard from in Cleveland, as follows: "I suppose I should begin a letter to my Class Secretary with various apologies for not having written sooner and more frequently in the past, but I will forget the apologies and give a brief account of myself for the benefit of some of those who may wonder what in the world has happened to me since 1912.

"After graduation, I came directly to Cleveland, Ohio, where I became connected with what was then the National Electric Lamp Association, and what is now the National Lamp Works of the General Electric Company at Nela Park.

"I have been in the Engineering Department of this organization for eleven years this coming September, which may show that I am at least a 'sticker.' It is needless to state that my work has been very pleasant and I have enjoyed it immensely. There is always something new in the incandescent lamp game and the growth of this industry shows that it is one which has sound and fundamental foundations.

"I frequently see Merrill J. Kimball of the Telephone & Telegraph Company at Philadelphia, and a month or two ago had a very pleasant visit with him and his beloved wife in Philadelphia.

"I have visited the 'Stute on several different occasions, but my business trips do not bring me to the East very frequently. I generally plan to visit some of the profs whenever I come East, in order to keep up acquaintances



Rubber Insulated Wires-

Including Wires for Buildings, Railway Signal Wires, Telephone Wires, High Voltage Wires, Car Wires.

Special Cables and Cords-

Deck Cable, Stage Cables, Lamp Cords, Elevator Lighting Control and Annunciator Cables.

Automobile, Ignition, Starting and Lighting Cables.

BOSTON INSULATED WIRE AND CABLE CO.

Dorchester District
BOSTON, MASSACHUSETTS
Canadian Factory, Hamilton, Ontario

especially with my old friends Drisko, Page, Lawrence, Frankie Laws and others.

"So far as personal news is concerned, the most important thing probably is the arrival of a son on March 18 of this year. His name is Lawrence Richard, and naturally he is the most important member of the family, especially inasmuch as this is our first youngster after eight years of married life.

"I cannot help but speak a word regarding my pleasure on learning of Denison's appointment as Executive Secretary of the Alumni Association. I do not know of a better man for this position. Anybody who knows Dennie personally, loves him, and he is perfectly capable of successfully filling this job and handling some of the difficult problems which I can foresee are coming his way. With kind regards to yourself and the Class of 1912."

D. A. Tomlinson writes from Chicago, at the American Society of Civil Engineers' Convention held in Chicago in July, that he met F. C. Loweth, IX, who is now fuel agent for the Cleveland Electric Illuminating Co., whose offices are located at Public Square, Cleveland, also, L. H. Sandston, I, who is now with the American Rolling Mill Co., at Middletown, Ohio. It is of interest to note that C. F. Loweth, father of F. C., who is Chief Engineer of the Chicago, Milwaukee & St. Paul Railway, is President this year of A. S. C. E. Tomlinson remarks that Loweth seems to be fast acquiring the characteristics and viewpoints of a hard-boiled purchasing agent. Possibly, as he is trying to promote the use of concrete among railroads, he is a bit sensitive about this type of man.

Roy Chandler, II, who is with the Yale & Towne Co., has been in Europe this Summer on important work for them, and the following letter received from him is of interest. "Often have I had the urge to write for the class notes in the Review, but a subject has always been missing when I have been in the mood. Today, I have a lot of time, the inclination and a subject which may perhaps have some interest to you all.

"This morning we sat in our very pleasant rooms overlooking the lake, and listening to the city's traffic passing below, when suddenly everything stopped and the quiet became oppressive. Our friends came in to breakfast with us, and said that following the resignation of Dr. Cuno and the shortage of paper marks, there were rumors of serious trouble, and they had seen the passengers taken from a motor car and left on the curb.

"We next heard the noise of many people, and saw a mob passing below the balcony. They stopped next door, where a building is under construction, and after some demonstration, the workmen there packed up their tools and joined the mob, which then passed on. They looked with hostile eyes at the hotel, but did nothing.

"While continuing our breakfast, we heard the roar of unmuffled gasoline engines and saw two tanks driving the crowds through the streets. The scattering was only temporary, however, and soon about eighty heavily armed policemen in motor trucks equipped with machine guns followed the tanks, once more breaking up the crowds.

"We then went out and through the center of the city to the headquarters of the police to register. We saw the shopkeepers putting up the steel shutters and closing shop for the day. The Communists meanwhile tried to sack a bank, and they also were closing their doors. The streets were filled with people except when they were scattered by the passing of a couple of trucks loaded with police. Apparently they were mostly business people and shopworkers taking the shortest road home. Transportation was at a standstill and all business suspended. We went out to our Hamburg factory, and found our own men with one exception working peacefully, because we had been able to make an eighty per cent payment on the last week's wages. The exceptional absentee had been taken away at lunch hour, as he had been found to be the chief lieutenant of the Communist leader who had been shot in the rioting. He had been a model employee, a mechanic of the highest grade, and we were surprised and shocked to learn of his connection with the trouble. We were able to get out because the Government-operated railway gave normal service, but could use neither cabs nor trams, as they had been deserted by their crews.

"When we left the factory, we were able to get a cab who was game to drive us back to the hotel. Peace reigned along the way, although no one was working, and we were watched closely and with suspicious animosity. The few cars which were moving were all occupied by foreigners, and bore the flags of their respective countries for protection.

"Reaching the heart of the city again, we found things much quieter. The streets were being patrolled by squads of eight police and fixed bayonets and armed with automatic rifles. Where stationed on point duty, there were always two police together.

"The proprietor of the café where we dined was afraid to turn on the electric lights on account of possible sniping, and just as we were finishing our dinner in darkness he asked us to leave so he could shut the place up for the night, as he was afraid of looting.

"As we returned to the hotel, quiet prevailed in the center of the city, but there was considerable machine gun and rifle firing to be heard from the shipping districts where rioting continued through the night.

"A 'State of Siege' is proclaimed with instant death as the penalty for looting, breaking glass, etc., and the city is taking on a normal appearance.

"The Senate and Banks printed and distributed local paper money, worthless in itself, which appears to be largely relieving the situation. The issue is in one, five and ten million mark notes and it is only good for the emergency and until August 31. Such is an effect of juggling foreign exchange."

The Tech Club of New York have held their first lunch and the following shows that they have a busy Winter planned: "After a Summer adjournment

Behind Our Products—

stands the established reputation of the CARPENTER-MORTON COMPANY for delivering satisfactory merchandise.

For over eighty years our products have fulfilled our claims, giving full value for every cent. Our long experience enables us to supply a paint or varnish for every purpose.

We should be glad to send our representative to consult with you and help

you at any time.

It will pay you to investigate.

CARPENTER-MORTON COMPANY

77 Sudbury Street, Boston, Mass.

MANUFACTURERS OF

PAINTS :: VARNISHES OF ALL KINDS :: ENAMELS INDUSTRIAL AND ARCHITECTURAL FINISHES

1912 Continued

isince last June, the New York members of the Class of 1912 started their regular monthly luncheons on Wednesday, September 19. There were ten present: Freeman, VI, N. A. Hall, VI, Payson, I, Keith, I, Rhodes, VI, Cooper, VI, Cook, VI, Gallagher, VI, Morrow, IV, and McGrath, I. As usual, Course VI predominated.

"The luncheons will be held throughout the Winter, usually on the third Wednesday of the month, at 12.30 p.m. at the Technology Club, 17 Gramercy Park. Other classmates visiting New York are urged to keep this in mind and get in touch with some of us. The next one is scheduled for Wednesday, October 17. Doc Cook (James A.), 92 Vandam Street, New York, has generously volunteered to engineer the October luncheon.

"At the September luncheon, someone reported having seen H. E. Dexter, VI, in New York recently. He had just returned from three and one-half years in China with Anderson-Myer Co., as their Sales Engineer for Southern China. It is now reported he is located in Beloit, Wisconsin, in the refrigerator business with B. N. Morash. Any member planning to set up housekeeping, please note.

"It was also reported that H. E. Babcock, II, was in New York this Summer. He is said to be General Manager of the Interstate Pulp & Paper Co., at Appleton, Wis. We can only think of one small item for the home that he could help us out on."

The Goshen Indiana Times reports that John L. Bray, III, is now Assistant Professor of Chemical Engineering at Perdue University. A considerable effort is being made by the Alumni Council to increase, if possible, the number of sustaining members in order that the new Executive Sceretary's expenses may be met, and as the tax is only \$10.00, it is hoped that a wide response will be met with. An outline of the activities of the new Executive Secretary, O. B. Denison, was given at the first meeting of the Alumni Council, held recently, and it is certainly a work that should be reported by every member of the Alumni. Anyone wishing to qualify as a sustaining member will please write your Secretary at once.

1914

H. B. RICHMOND, Secretary, 62 Tufts St., Arlington, 74, Mass.

G. K. Perley, Assistant Secretary, 45 Hill Side Terrace, Belmont, Mass.

Five months since the last issue. And only seven months to the Grand Ten-Year Reunion! Have you made your plans yet? The tentative arrangements call for a three-day stag affair in June at some club or inn accessible to New York and Boston. Mention this event to all Fourteeners you meet, so that we will have a big attendance. Only about one-third of our class are subscribers to the Review, so that we will all have to get together and convert the wayward two-thirds. We'll meet you there!

There have not been many startling events during the Summer. When things are dull, look to Pat Adams to start something. Pat's name has appeared in the Boston papers at least once a week all Summer. The first startling news appeared late in June, when the papers carried the following item: "Announcement has been made by Mr. and Mrs. Melvin M. Johnson, 96 Bay State Road, of the engagement of their daughter, Mrs. Dorothy Johnson-Salisbury, to Porter Hartwell Adams, wealthy aviator and motor enthusiast of Brookline. Mr. Adams is the son of the late Charles A. Adams of the fruit and produce firm of Chapin and Adams, and a grandson of the w. k. Porter." Pat of all persons! Perseverance, Pat, we are all with you.

Apparently romantic events are not taking all of Pat's time. He finds time enough to hobnob with Mayor Curley of Boston and is his appointee as Chairman of Boston's Air Board. It is understood on good authority that no entropy relationship is associated with this Board. On another occasion we find Pat assisting the Commanding General of the First Corps Area at the opening of the Boston Air Port at East Boston. Again, we find him speaking as the Vice President of the National Aeronautic Association, the official flying organization of America. And just for fun to keep out of mischief Pat is running a company making an accessory for flivvers.

Vic Galleni did his bit on July seventeen. The advance announcement

Vic Galleni did his bit on July seventeen. The advance announcement of the wedding appeared in a spring issue of the Review. It was not stated, however, that Leo Walsh was best man.—Another Summer wedding was that of Harold W. Fay on June thirty to Miss Katharyn Beadle at Rochester, N. Y. As Fay is instructing at the Harvard Medical School, he is back in Boston again this year.

The recent earthquake in Japan is of particular interest to Fourteeners. Joe Fish, VI, was at Yokohama for the General Electric Company. Joe was one of the fortunate survivors of the terrific earthquake and escaped by boat to Kobe.—Another message from a Course VI man in the Orient is from Yu Mai Chu. Chu has resigned from the Canton Water Works and is now Electrical Engineer for the Kwong Tong Electric Supply Company. His duties are those particularly pertaining to the power business and the transmission system. The company is installing new equipment, which will ultimately bring the generating capacity up 35,000 Kw.

Two recent visitors in Boston were Alfred Hanson from the Bureau of Standards and Howard Borden from New Jersey state service. Hanson was home for a vacation and Borden was attending the annual convention of the American Prison Association.

R. E. Merry has been promoted from the Boston office of the U. S. Gypsum Co. to Assistant District Manager of the New York office.—Ernest Kerr, who has been in the Boston office of the Factory Mutual Fire Insurance Companies, is now in Providence as Vice President and Engineer of the Hope Mutual Fire Insurance Co., and the What Cheer Mutual Fire Insurance Co.—

Another Course II man to make a change is A. F. Petts. He resigned from the Alberger Pump & Condenser Co. to join the organization of Edward C. Brown & Co., Consulting Engineers, 220 Devonshire Street, Boston.

Remember these notes are due to appear every month — and that no letters, no notes.

1915

Frank P. Scully, Secretary, 118 First St., Cambridge, Mass.
Howard C. Thomas, Assistant Secretary, 100 Floral St.,
Newton Highlands, Mass.

It is always best to get the bad news first, so the following is first on the program. Its author is anonymous.

"As the Manager of the family I am always interested in anything related to the Chief Engineer; I read with enthusiasm many of the class notes in the Technology Review, and especially the 1915 notes. But, how disappointing to discover in the last issue of the Review under the heading of 1915, 'No notes received from the Secretary.' Now it so happened that after the posta card appeal with its pathetic wording, the Chief Engineer, due to an order from the Manager, sent in quite a long letter telling of his own and other 1915 news. That letter should have been received by the Secretary in plenty of time for this issue. Therefore, the speculation occurs — could there be other answers to the appeal which also went astray, and consequently that sad caption, 'No notes received from the Secretary'?

We open the book,

And merrily look

To discover the friends who will daringly marry.

With a gloomy pain

We look in vain -

'No notes received from the Secretary.'

Alas for that day,

No longer gay,

Yet over the book we hopefully tarry.

But to us the Review's

Too empty of news -

'No notes received from the Secretary.'

And so on ad infinitum. I had no intention of bursting into verse when this letter began, but the sad thoughts of the empty Review were too much for my versical feelings. Why should not all the Managers contribute if the Chief Engineers will not? But, after all, that would unfairly represent the class, as every one has not yet found a Manager. So, 'tis best for the Chief Engineers to continue on their halting paths. Good fortune to their progress.

"P. S.—The Chief Engineer in my family is ignorant for the moment that my thoughts have overcome the bounds of prose, therefore I shall discreetly not sign my name, though I do not usually believe in anonymous letters."

The, Secretary pleads guilty to the charge on the July issue, but as we were only supposed to get in news for every other issue and endeavored to make every issue, we ask to be let off with a light sentence. Somewhere later in the news, the letter to which this refers will appear; but your guess is as good as mine.

Maurice Brandt, V, writes the following, from Trenton, N. J., enclosing an announcement of the arrival of Albert Frankland Brandt on April 12, 1923: "You want some news. News! Well, old man, here it is, and news with a vengeance, for it's just about the most important news ever. A wonderful fellow he is, and he and Mrs. Brandt are both doing well. Only one thing — I can't promise you these kind of items every time you want news."

Congratulations of the class are extended. While this type of announcement is in order, let us hear what A. Hamburg, XI, has to say in answer to a request for news: "You are right. I have been negligent. But I have kept busy otherwise. A daughter, Ruth, arrived for Christmas. That's what you call a 50% increase. Consequently, I am increasing the capacity of my engraving shop in the same proportion.

"Can you get me in touch with a member of the class who sells motors?

I'll be in the market for one very soon."

May your engraving shop increase and multiply.

We also acknowledge receipt of an announcement from Lloyd Chellman, I, stating the arrival of Dorothy Chellman on May 20, 1923.

The New York *Times* has the following in a recent issue about Henry Leeb, VI: "Mr. and Mrs. Robert Storer Stephenson of Westport, Conn., announce the engagement of their daughter, Miss Katrina Schermerhorn Stephenson, to Henry Lorent Leeb, son of Mr. and Mrs. Alfred Leeb of South Orange, N. I.

"Miss Stephenson is a graduate of Vassar, Class of '21, and has been for the past two years teaching at the Hartridge School, Plainfield, N. J.

"Mr. Leeb is a graduate of the Massachusetts Institute of Technology, Class of '15. During the war he served overseas as a lieutenant in the United States Navy."

Henry was always one of our best looking men and he must have had a stony heart to have lasted this time.

The following is from the Boston Transcript: "Professor and Mrs. George C. Whipple, of 6 Berkeley Place, Cambridge, have announced the engagement of their daughter, Miss Marion Whipple, to Gerald Marcy Keith, son of Mr. and Mrs. Herbert C. Keith, of Ditmas Park, Brooklyn, New York. Miss Whipple is a graduate of the Cambridge-Haskell School and of the Boston School of Physical Education, Class of 1920. For two years she has been physical director in the Buckingham School in Cambridge and has served as executive secretary of the Cambridge Council of Girl Scouts. Mr. Keith was graduated from the Massachusetts Institute of Technology in 1915 and served overseas in the World War as Lieutenant of Engineers. He is a member of the Phi Beta Epsilon fraternity and is an associate member of the American Society of Civil Engineers. The announcement of this engagement was made at a supper given earlier in the week by Mrs. Whipple, to a group 'of her daughter's intimate friends."

The New Haven *Register* stated on April 6 that Edward F. Waldron of Danvers, Mass., who studied at M. I. T. and was also a graduate of Brown University, had been appointed Superintendent of Schools of Bradford, Conn.

The engagement of Miss Catherine Miley to William J. Barrett, II, was noted in the Boston *Post* of May 20.

Louis Zepfler, V, writes the following interesting letter from 13 Hayes Avenue, Elizabeth, N. J.: "In due response to your efforts for more news from the class and in order that your second post-card might not be considered as wasted but that the idea might be considered as sold in so far as I am concerned — here's my letter. I'm not making it long for two main reasons and several minor ones. First, I feel that so many will write long ones that you won't have room to print mine if it is long, and secondly, I feel more confident of my abilities as a short story writer especially since such a story would be more adaptable to my career and length of bank account.

"First, I must compliment you and Howard for the results obtained and must admit that this is one case in which persistence is a virtue. I might suggest that you use the same persuasive efforts in collecting class dues, for so far as I am concerned, I can't remember when I paid them.

"There is one point that I would like to call to your attention, however, and that is, that we never seem to hear from the boys who are mentioned in the letters from the faithful. Couldn't they be considered as A No. 1 prospects for letters — Request Numbers — as it were, in view of the demands of their class members.

"As for myself — well I am like Mary Plummer Rice — we both took Course V and then devoted our lives to other things, not that I regret my chemistry for I still use it a lot. However, since the war I have been with the Standard Oil Company of New Jersey — three years in the General Engineering Department specializing in fuel oil designed boiler plants and for the past year have been located at the Eagle Works Refinery in Jersey City in the capacity of Combustion Engineer in charge of steam production of a 14,000 rated h. p. boiler plant and combustion conditions on sixty lubricating stills. To do this work I have had to do considerable outside studying but

FLEXIBILITY AND HEAT INSULATION ARE THE LEADING FEATURES OF THE SWARTWOUT INDUSTRIAL OVENS

THEY ARE SUITABLE FOR A GREAT VARIETY OF USES AND FOR EFFICIENCY
AND ECONOMY IN PRODUCTION THEY ARE UNEXCELLED
LET US MAIL YOU A CATALOGUE

NIGHTINGALE & CHILDS COMPANY
205 CONGRESS STREET - BOSTON

-SIMCORE-

Ask for Specification No. 2053 for your files

THIS SIMCORE PHIN





Simcore wires and cables are subjected to voltage tests ranging, according to size, from 331/3 to 100% in excess of underwriters' requirements; they have a smooth finish, are easy to pull in and can be delivered quickly. Simcore is safe and gives satisfaction.

SIMPLEX WIRE & CABLE Q

MANUFACTURERS
201 DEVONSHIRE ST., BOSTON 9
CHICAGO SAN FRANCISCO NEW YORK

1915 Continued

hope to use my chemistry to better advantage when I get into the process end of the oil business.

"I am still living in Elizabeth, N. J., but manage to run up to Boston several times a year. I hope some day I shall be able to run up there for keeps. Until then—then being in the dim distant future—I promise faithfully to write something after the receipt of two post-cards at the most."

Edward Teeson, II, writes from 84 Mather Street, New Haven: "Sorry I didn't answer your first appeal for news but will try to outline a brief history of one of the negligent ones.

"I have been with the U. S. Rubber Company since graduating and am at present located in New Haven, where I have been for the last four years. Macony is the only other 1915 man around here that I know of, although Forest Purinton is in Waterbury, not very far from here. There are, however, quite a few Tech men, both in New Haven and in our organization, making it possible to have a fair Technology Club.

"New Haven is the finest place I have lived in yet and I hope I may remain here for quite some time, as I am very comfortably situated, having everything a reasonable man ought to ask for, a home, a car and a four-yearold boy.

"If by chance you should hear from Charlie Putnam I would appreciate it very much if you would let me know where he is, so I can get in touch with him."

Philip L. Alger, VI, writes the following letter from 305 Rosa Road, Schenectady, N. Y.: "Your heart-rending appeal for news has doubtless deluged you with correspondence, so that I feel deserving of your thanks in having delayed my answer a respectable time — thirty-five days.

"I wish that some analytically inclined member of the class would tell us why so few letters are forthcoming from month to month. Is it because Tech taught us so little English that we find letter-writing difficult? Or are engineers naturally diffident about their own affairs? Or have we all decided that advertising is not economically justifiable so that we take care to avoid all forms of self advertisement whatever?

"To me it seems that the root of all evil is the lack of a budget system for allotting one's time among the various duties and pleasures that deserve or demand a share. If I allotted the appropriate 1% of my time to keeping up friendships by correspondence I would doubtless be much better off in the long run. But tangible duties (?) like reading the newspaper will ever claim an undeservedly large share of attention as compared with such intangible things as 'improving the mind' or answering that letter.

"Since August last, Mrs. Alger and I have been chiefly occupied in obeying orders—and very peremptory ones—issued by our son, Laughton. He is really a Junior, but we hope to secure his permission to call him by

his middle name when he has time to consider the request. So far, he confines his expressions of approval to some very broad smiles. His expressions of disapproval are of more varieties, but not less definite.

"Our little girl, Augusta, is now three and three-quarters years old. The two of them furnish us with so much occupation, amusements, and topics of conversation that theatres, movies, and lectures are no longer of any interest in comparison.

"I have been with the General Electric Company for four years now, engaged in designing and research work on electric machinery. The work has gained in interest as I went along, so that now I do not expect to undergo any more violent convulsions in my mode of living. My business takes me to Fort Wayne, Indiana; to Pittsfield, Mass., and to Boston occasionally. The next time I visit Boston I will look you up, Mr. Secretary!

"As a closing remark, what could be more fitting than a suggestion as to how another letter may be secured? Kenneth K. Boynton and Mrs. Boynton have just returned from a three-year stay in Japan. They look very cheerful and handsome. K. K. should and must tell us of his adventures in the Far East. His address is the International General Electric Company, Schenectady, N. Y. As his next trip is to Mexico City, we may look forward to another, and perhaps still another, travelogue, ere long!

"I should be glad to welcome any of the class who chance to visit Schenectady, and to show them over the works. May your correspondence never grow less!"

Phil Small, IV, writes from 1836 Euclid Avenue, Cleveland, Ohio: "I have intended writing a letter to you for some time, but either procrastination or business has prevented me.

"As I have not written a letter to the class since graduation, I will pick out the salient points of my life history, and hand them on. After graduation, I came to Cleveland and entered an architect's office, where I stayed until the war. During the war, I got overseas, was an artillery officer, and saw action at the front as a Balloon Observer. After the Armistice, I went to Paris and was a member of the Faculty of the Fine Arts School at Bellevue, a suburb of Paris, after which I traveled for a while, and then came back to Cleveland. I entered into practice for myself on February I, 1920, and business has been developing rapidly ever since. On February 1, 1922, I took an engineer into partnership, same being C. B. Rowley, M. I. T., 1912. Our practice has grown by leaps and bounds. A year ago we had an office force of two, and now we have eight, and are pretty much rushed to death most of the time.

"We have a very thriving Technology Club, here in Cleveland, which contains several 1915 men. We have a very congenial bunch and very interesting dinners about once a month.

"It is a matter of great regret to me, of course, that I do not see the old bunch now and then, but one of these days I hope to journey down to Boston and look some of them up. I saw Henry Leeb in Paris, but he is the only one of the old 1915 Technique bunch that I have seen since graduation."

It is mighty fine to hear about the successes of 1915 men. From another architect, Edward Schoeppe, IV, 315 South 15th Street, Philadelphia, we hear: "I suppose it is too late to answer your request in time for the July issue of the Review, but I have had a guilty conscience ever since receiving the card.

"There is little about which to write, except that I have been very busy practising architecture in Philadelphia. The work has been rather general, consisting of automobile sales and service stations, apartment houses, a large dance hall, a large settlement house and chapel and various alterations and additions.

"There are apparently very few 1915 Tech men in town, as none of them show up at the Tech club meetings. Should any of them stop off in Philadelphia, I will be mighty pleased to have them stop at my office.

"I am still single without even any hopes."

Jake Foster, X, writes from 52 Wren Street, West Roxbury: "So you have us listed, have you, and when we don't write a line and let you know we are still alive, you send us another card. It is a good idea, I think, as I would still be dead if you had not sent me another card.

"I met an old timer a couple of months ago, who I guess must be very wealthy by this time, as he handles millions of diamonds yearly. He is

Morrison.

Then again, I see another old timer frequently, who was a chemist and he still handles dies, but note this is spelled the other way, and he has so many of them now, that he is increasing his shop for a larger output of en-This is Ab Hamburg. gravings.

'Another old timer is R. G. Knowland, a very busy man. In fact, I think he is so busy that he never eats lunch, because in three attempts, I have not

yet been able to get him to eat with me.

"I suppose you know that F. G. Brown is now with the Automobile Fire Insurance Company in Hartford; that String Hill, sometimes called M. E. Hill, is now in Philadelphia; and that Bill Brackett is now back from Canada and with Stone & Webster.

"As I go on, I realize I am a better plumber than letter writer and will

ring off."

Charlie Blackmore, VI, says that Pete Munn, I, has been transferred to the Engineering Department of Stone & Webster and John Conover, VI, who was with the Bureau of Yards & Docks, is now with Stone & Webster; but did not state just where they are located.

G. M. Hohl, III, came through with a letter, very terse but to the point:

Charlesgate Hotel

CORNER BEACON STREET CHARLESGATE EAST AND MARLBORO ST.

Unobstructed View of Charles River and **FENWAY**

One of Boston's Best Residential Hotels

Beautiful Suites, furnished and unfurnished

CAFE OPEN YEAR ROUND

Phone Back Bay 2376

HERBERT G. SUMMERS

also operating Cliff Hotel and Cottages North Scituate Beach, Mass.

On the Ocean Front

Class Outings Solicited

"Am still with Bethlehem at the Bethlehem Plant. Business is booming and we are very busy. Also, still single. Best regards.

It seems very good to hear from Parry Keller, II. Parry always had a lot of class spirit and I hope that he is a regular correspondent from now on. His letter is dated April 13 from the University Club at Akron, Ohio. We really should hear some more news from him shortly.

"It has been some time since I have communicated with the Secretary of our class and I am frank to admit that I am not proud of my delinquence in that respect. I have always read with keen interest and enjoyment the class notes that have appeared in the Review. In fact, I do not recall of ever having missed a single issue. Therefore I feel justified in saying that the class secretaries are to be commended for the excellent job they have done and are doing in keeping 1915 on the map as far the Review is concerned. From now on you can count on me to do my little bit to help you out.

"I do not know just what I can say to you except to briefly tell you what I have been doing with myself during the past three or four years.

"Upon discharge from the Army I entered the employ of The Goodyear Tire and Rubber Company in Akron, Ohio, and have been with them ever since. In January, 1921, I was sent to the Philadelphia District as Factory Representative. My experience in the Philadelphia territory was most interesting, as it involved a combination of both technical and sales work. September, 1922, I was recalled to Akron to work on the design and development of truck tires.

'Just let me give you one other bit of news before I close. My engagement to Miss Irma Schwatt of Philadelphia, Pa., has just recently been announced. I have learned to live the life of a carefree bachelor pretty well, but I have every confidence that I can get into step with the new conditions that are to be without much trouble."

Paul Weymouth, V, came through with the following: "Since leaving Institute, I have been connected with various concerns, among them being the Merrimac Chemical Company and the New England Manufacturing Company. I was with the New England Manufacturing Company during the war, and was engaged in the manufacture of picric acid.

"I am now with Skinner, Sherman & Esselen, Inc., and am engaged in the examination of all the different kinds of compounds that are brought into an industrial laboratory. When I went to the laboratory in January, 1919, it was under the supervision of Professor Prescott, and was known as the Boston Bio-Chemical Laboratory, but was bought by the present owners about two years ago. The work is very much varied, so that I never have two days in succession that are the same.

"Last October I was married, and have been living in Boston since, but, I am going to move out into the country and join the ranks of the commuters in a very short time. The class will be notified of important family changes as fast as they occur.

Doug McMurtrie, X, from up in the wilds of Berlin, N. H., has a word to say: "Your call for help fell on ears, which, although sympathetic, were not well coordinated with my writing hand: thus the May issue receives only belated news from this corner of the White Mountains, which misfortune has palliative phases, however, in that the Review misses few lines thereby.

'The class roll is soon called here, for since Jack Little, X, moved on to the Western Electric Company in Chicago, the list numbers only Don White, X, and myself. The cradle roll, though, is of greater magnitude, for it numbers Penelope Ann White, William Gerrish White (August, 1922), George Lempereur McMurtrie, and Robert Lempereur McM (November, 1922), and has already achieved loud distinction.

"There are about ten Tech men in Berlin, most of them in the research development of the pulp and paper mills, a vocation which is noble and all that, but which doesn't lend itself to prolonged description.



WHERE THREE WORLDS MEET

The men and women of three worlds meet in the foyers of the Lenox and the Brunswick — the Professional World, the Business World, and the World of Society.

Two distinguished hotels, close to the Back Bay stations, near the theatres, neighbors with fine shops.

The Brunswick

The Lenox Boylston Street at Exeter

Boylston Street at Clarendon

BOSTON, U. S. A.



THE Raymond-Whitcomb "Independent Service" (at home or Abroad) is designed for those who prefer to travel "without escort." For extended journeys, necessitating the patronage of unfamiliar railroads, steamship lines and hotels; for successful limited vacation periods; for expeditiously "routed" business trips-our "Independent Service" is a real help. We procure in advance all steamship, Pullman and hotel accommodations; we arrange for baggage transfer and automobile hire; we plan side-trips and essential sightseeing excursions-do everything, in fact, to relieve the traveler (before he sets out and en route) of the generally unescapable hours of annoyance over time-tables, at ticket-offices and in discussions with porters and hard-worked clerks. We believe, if you are planning a trip, we can be of infinite assistance.

Raymond & Whitcomb

New York 225 Fifth Ave.

Philadelphia Chicago 112 South Dearborn St. 1338 Walnut St. Executive Offices, Beacon and Park Streets, Boston

San Francisco 657 Market St.

Los Angeles 458 So. Spring St.



1915 Continued

"If you're ever in this extremity, don't fail to visit the town and the

Harvey Daniels, I, is probably now back in China, but his letter to Howard Thomas is very welcome: "Let me see - it must be just about three years since I met you on the street in Boston, and all this time I have been reading what you have been writing in the Review. I've been almost persuaded to write you a few lines many times, but like many others I have only reached the almost point, - until now. Not that I have anything to say now, but I want to get straight on my subscription to the Review. I have always paid when the notice was sent and this year all I get is a pink slip headed, 'First Warning.' I find in my check book, stubs that I paid \$3.00 last year and I am sending you a check for that amount, hoping that you will do me the favor of seeing that I'm fixed O. K. on the subscription lists. If it is more, let me know and I'll do what is necessary.

"I'm coming home this Summer and I'll look you up. Expect to spend a month at the Beach (Brant Rock) and will be around Boston some. Mrs. Daniels and I are looking forward to a wonderful five-month vacation and then back to China again, I guess."

And now for the two masterpieces. The first from Don Baker from away off in Barcelona, Spain. Wasn't it Barcelona that Al Jolson made famous in one of his songs?

"Your post-card dated March 10 has arrived in Barcelona. In fact, it arrived some time ago but it has taken me some time to get up enough courage to write, as I have to confess to owing class dues and to general negligence in correspondence.

"The trouble has been that when I had enough money to pay my dues I was too dazed (from joy) to write and at other times I didn't want to disclose my address. As a way out of that difficulty, I enclose a check to be applied on account and would ask you to send me a statement showing how I stand.

"In the Spring of 1919, I decided like a good many other now ex-soldats that civilian life was preferable to the Army in peace times after being with

"Some time was spent in proving that if this is true of the Army, it is also true in the Y. W. C. A. Before that was settled, I had returned to the Bell System, this time with the International Western Electric Company. After a few months in New York I was sent to Antwerp, where the Bell Telephone Mfg. Co. is located. I stopped just long enough to get a leave of absence and was married in Marseille in June, 1920, thereby saving the above-mentioned Y. W. C. A. from paying one first-class passage to America.

"From August, 1920, to date, I have been in Spain, first as representative of the Bell Telephone Mfg. Co. Since the first of this year I have been with

a Spanish company named Teléfonos Bell, S. A. Although a strictly Spanish Corporation, it has been successful in securing exclusive rights as concessionaire of the International Western Electric Company in Spain and we hope to do a good business. This assumption is based on the idea that a country with a telephone system as thoroughly antiquated as it is here, will have to get a better one some day.

"Two young Americans, Douglas Haden and John Robert, who know not their native land, have joined our family in Barcelona. We hope they will be on hand for the 1925 Reunion.

"Spain is out of the way for M. I. T. graduates. Maybe someone else may read this and get in touch with me. For all I know, there may be enough of us in Spain to form a Tech Club.

"Once in a while I receive a letter from Kenn Boynton from Yokahama or Tokio or from Phil Alger in Schenectady. Have they come across with a letter?

"P.S.--Some time if you want some space filler, I can write more about the country.'

Howard Thomas sends the following letter along from Rege Pollard, X: "I received your letter wishing me Bon Voyage on shipboard and intended to write you from the ship and then decided to wait until I arrived and had an opportunity to size up the place here. I had a very pleasant trip with good weather, except the first day, between New York and Cape Hatteras, when we ran into heavy wind and a bad chop which rather made me lose interest in food for that day. However, I made up for lost meals during the rest of the trip — the table was very good and my appetite was usually equal to every occasion. We sighted land only twice between New York and Colon, San Domingo and the eastern end of Cuba, both barren, desolate spots with no signs of human habitation except lighthouses.

"We arrived at Colon after six days sailing and spent the afternoon and evening there. The U. S. has built some huge concrete piers and warehouses here at Crystabol, the American port of Colon and the place is very busy shipping.

"We spent the afternoon in the open-air pool at the Hotel Washington, then looked the place over, and took in a couple of cabaret shows that evening.

"The following day we went through the canal. It rained and then cleared off and on, all day long, but I managed to get some pictures of the place and some of the locks which are the finest examples of engineering that I have ever seen. The trip took about eight hours. We passed through Gatun Locks, which raised us 72 feet to the level of Gatun Lake, which is an immense flooded section having a variety of tropical scenery. Then we passed through Pedro Miquel Locks to Culebra, where steam dredges and hydraulic

pumps were at work; then through the Mira Flores Locks into the canal to the Pacific.

"The locks work like clockwork, only a few minutes being required to raise or lower the water level by means of huge pipes in the sides and bottom of the retaining walls. The ships are towed through the locks by means of electric engines operated on a third rail system. The journey through the canal was worth the entire trip in my estimation.

"As soon as we entered the Pacific Ocean the temperature dropped, and while the wind blew briskly, the sea was very calm.

"The night that we crossed the Equator was one of the coolest on the trip. It seems that there are some cold currents in the Pacific close to the west coast of South America which keep the coast very cool at night.

"Our first South American stop was Callas, Peru, where we stopped two days. We went ashore and took a trolley to Lima, where we saw some very interesting cathedrals built by the Spaniards in 1550. At one of these are interned the bones of Pizarro, the Spanish leader who slaughtered the Incas and founded Lima in 1575. His bones are placed in a glass sided casket which is opened for public inspection between certain hours. The University of San Marcos, the oldest on the American continent, 1551, I believe, is located at Lima. From the outside it resembles a one-story prison, but inside it is composed of classrooms, corridors and very quaint courts.

"As we left Callas, we saw millions of sea birds; the air was black with them. A short distance south of Callas are located the large guano deposits over which Peru and Chili are at loggerheads.

"The ports on the west coast of South America all have no harbors to speak of; the ships anchor in an open roadstead and the passengers and freight are transferred into launches and lighters and taken ashore.

"The coastline from Callas to Antofogasta is a very barren, rugged range of low mountains. Here and there one sees a patch of green, due to irrigation, but on the whole it is a stretch of desert country.

"I have been on the job about six weeks now. To date, we have not turned over our entire plant, although we have our crushing department working quite satisfactorily and our leaching has been going about three days.

"I am located about 160 kilometers from Antofogasta on the Antofogasta Bolivia Railway at a place called Cecilia from the old nitrate plant which is located here, but not operating just now. This plant, when running, has a capacity of 4250 tons per month and employs about 700 men, mostly Chilians.

"There are ten of us operating the experimental plant here and six of the fellows are Tech men—Dr. Brudick, X, '13, Dr. Freed, V, '16, Littlefield,

Technology Branch H. C. S.

76 Massachusetts Avenue

is a specialty store. It specializes on the things that Technology men are interested in. The main purpose is to supply the material required to do the work at Tech.

We cater to the social side of life with room decorations, Banners, Pennants and Pillow Cases all in Cardinal Red and Gray.

The jewelry section with the Tech seal on all the merchandise is very attractive both to students and alumni.

The store is just across the street from Tech. Come in and look. You are welcome.



X, '20, Atkinson, X, '22, McCue, X, '22, and myself, two Cornell men, and one from McGill and one from University of California make up the party.
"We are very comfortably housed, have a Chinese cook and a Jap to wait

on table and look after the house.

"For recreation we have a tennis court, a nine-hole golf course, and saddle horses. We have all been so busy since we landed here on construction that we have had practically no sports outside of a few sets of tennis.

"Our day starts at 7.00 a.m. and usually ends about 10.00 p.m., but with the start of shift work our days will probably narrow down to eight or nine hours.

"Contrary to the general opinion, the climate here is not exceedingly hot except during the morning when there is no wind. About 2.00 p.m. the wind comes up and it is rather dusty at times. The nights are very keen and rather cold, 32° being about the minimum. The days are usually bright and clear, although we do have dry clouds, that is, without rain.

"I expect that you are back at M. I. T. now instructing the embryo engineers in the mysteries of naval architecture.

"You might give my best to any of our class that you run across."

The following is from the Springfield Republican of June 10: "Miss Cleora Catherine Church, daughter of Mrs. Eliza Judd Church of 146 Pearl Street and Norman David Doane of Chicago were married tonight at the home of Mr. and Mrs. Philip M. Judd, the bride's uncle and aunt at 98 Nonotuck Street by Rev. Charles N. Thorp. The groom is a graduate of Alleghany College and Massachusetts Institute of Technology and is sales engineer for the Fort Wayne Tank and Pump company of Fort Wayne, Ind."

J. F. Leslie, VI, writes from far-off Winnipeg that he has paralysis of the wrist and has been an invalid for at least six months. I don't know whether to believe him or whether he is just getting up steam to write a real communication.

During the Summer, quite a few 1915 men dropped around to see the Secretary. Harry Craig was over, but unfortunately could not stay and simply left his card. He is Superintendent of the Palisade Section of Palisades Interstate Park Commission and is located in Englewood, N. J. I don't think that Gabe Hilton, III, has been around Boston since graduation, but we had a long chat one morning, reminiscing over old times. He is Sales Engineer for the Wisconsin Axle Company and spends quite a lot of his time traveling. Gabe wanted particularly to be remembered to all his old friends.

Lester Morse, I, came over to show his youngster just as he was starting to drive back to Dayton, Ohio, after having done some special work at Tech on aviation. Al Abrams, V, 'phoned the latter part of August, as he was passing through Boston headed for Maine on his vacation. He is still at Cornell, Wisconsin. Jerry Coldwell spent Labor Day in Boston and is just the same as ever, with apparently no intention of settling down to a staid married life. Clive Lacy, VI, is now Section Manager at Filene's and from what we understand, moving ahead very fast.

Bill McEwen, II, came down from Wellsville, looking just the same as the last time the Secretary saw him. Jack McDevitt, II, who is technically of 1916 class, but who was captain of our freshman baseball team, suffered a severe loss a short time ago in the death of his wife.

The Secretary enjoyed the hospitality of Al Walter, II, in Baltimore. Al is working on the development of a spring washer and is also interested in the manufacture of several Ford specialties. Charles Ellicott, XIII, is doing sales engineering for the Ellicott Machine Corporation. It was rather a coincidence that the Scully Company, when last year they contemplated the purchase of a sand and gravel dredge, thought the Ellicott Machine Corporation people to be the logical ones to construct this dredge, and that negotiations should be carried on with an old classmate.

With the advent of O. B. Denison and his well-known pep into active work on the Alumni, it is expected that the Alumni will be more closely in touch with Tech affairs. Your Secretary is going to do his best and we ask for your coöperation. If it is necessary to keep dunning the class as Howard Thomas and I did last year, we will do it; but we hope that this will not be necessary and that we will receive your coöperation willingly.

1916

D. N. Barker, Secretary, 14 Marathon St., Arlington, Mass. William W. Drummey, Assistant Secretary, 80 Boylston St.,

Boston, Mass.

Nicholas Bulyozian writes: "Upon graduation, I took a position with the Wm. S. Merrill Chemical Co., where I worked for four months as analytical chemist. I then took an opportunity with Charles Pfizer & Co., of Brooklyn N. Y., as research and plant chemist, where I had varied experience manufacturing pharmaceutical and fine chemicals. From here, I wandered to Boston and worked with the United Drug Co. as chemist for about a year. During this interval, I carried on research work in a laboratory at home and started the firm known as the Hub Chemical Co., and manufactured for the textile trade Tannic Acid and Acetate of Chrome and Antimony Salts as well as other textile chemicals. This firm was taken over and consolidated with the John D. Lewis Co., and we are now located at Mansfield, Mass., where we are putting up large units for the product we manufacture and I have various other products which we hope to develop in our new plant. As yet, I have not fallen for the winsome wiles of any fair damsel, although I must admit that I am having a hard time and suppose I must fall some time, as they say 'Even the mighty have fallen.'

S. R. Bisbe writes: "I am glad to say that the ice and snow are gone again, and construction work is in high gear and for the past eight weeks

I have been busier than the proverbial 'one armed paper hanger.' Unfortunately, I have not run into any of the boys of our class recently, although I have many business associates who are men of other classes."

Captain Joseph W. Barker writes: "On graduating, I took the exams for the Army and was commissioned November 30, 1916, working in the meantime at the Holtzer Cabot Co. in Roxbury, in the efficiency engineering department. Was assigned to Fort Monroe to the basic course which was cut short by our entrance into the World War. On May 1, 1917, I was sent to the west coast to Puget Sound and remained there until January 1, 1918, when I was sent to the Field Artillery School of Fire at Fort Sill, first as student and then as instructor and was relieved in time to sail with my regiment and arrived in France, August 1, 1918. Went on staff duty, 6th Corps Headquarters, October 26, 1918, and then went to Paris in January, 1919, where I was first on the War Damage Board of the Peace Commission under D. C. Jackson, and later was Assistant A. G. at Paris Headquarters. I remained there until November, 1919, when I went to Germany. In Paris, I saw many Tech fellows at the Bureau, and enjoyed Gibbs' hospitality there many times. In Germany, I was put in the District of Civil Affairs and remained until December, 1922. Had a most wonderful time and we (my wife joined me in Paris in 1919) enjoyed every minute of it. Our baby was born there in the Army hospital. Since returning to the United States, I have been stationed in Boston Harbor and have been to nearly all the alumni doings. I expect to leave for Fort Monroe about September 1, for a year at school."

"From an item in the April Review, we judged that Knight Owen was in far-off Texas," writes C. S. Makepeace, "but much to our surprise, we met him in Providence last week. It seems that the Victor Company sends him to almost any section of the United States which, in their opinion, should absorb a few victrolas and which merits the service of their stellar salesman. While Knight was in town, he endeavored to show Hovey Freeman, and the writer, something about bowling and although we cannot admit that the result was very conclusive, a good time was had by all."

The Boston Herald of May 22 announces the appointment of William W. Drummey as architect for the Schoolhouse Department with the special function of standardizing the plans for small schoolhouses and much research work in connection with durability and cost of material. Particular study will be made of the work accomplished along these lines in St. Louis, Cleveland and Chicago. Beginning June 4, Drummey will be located in the Little Building, 80 Boylston Street, Boston, Mass.

Isidor Richmond of 69 Everard Street, Beachmont, has just been announced by the Boston Society of Architects as the winner of the Rotch travelling fellowship in architecture. He will go abroad for two years of study. Richmond was graduated from the Massachusetts Institute of Technology in 1916. Since his graduation, he has been with the architectural firm of Cram & Ferguson, 248 Boylston Street. During the war, he was a lieutenant, junior grade, in the naval air service. In the summer of 1920, Richmond went to France with the Harvard reconstruction unit and worked in Rheims under M. Deneu, architect in charge of reconstruction of the cathedral. He is a member of the Boston Architectural Club. The competition this year was on the design of a legation building for a foreign nation to be built in Washington.

Frank D. Ross of New York has been appointed to take charge of the sprinkler risk department of the Scottish Union and National Insurance Company at Hartford, to succeed Louis Harding who recently resigned. Mr. Ross, who will resign from his present position as Assistant Superintendent of the special risk department of the New York Underwriters on April 15, is a graduate engineer, having received his diploma from the Massachusetts Institute of Technology in 1916. He was with the American air forces during the war and has for some time been in the home office of the New York Underwriters.

Formal announcement has been made by Mrs. Elizabeth Miley of the engagement of her daughter, Catherine Esther, to Mr. William Joseph Barrett. The betrothal has been known to a close circle of relatives and friends for some time, and to spread the good news Miss Miley's associates of the Quincy School, Tylet Street, arranged a surprise reception in her honor at the Hotel Brunswick. The bride-elect was graduated from Miss Lesley's school in Cambridge and is now a kindergarten teacher. Mr. Barrett prepared for the Massachusetts Institute of Technology in the Latin School and during the war served with the Ordnance Department. He is connected with the Metropolitan Life Insurance Co. of New York and is developing a department in group insurance. No date has been set for the wedding.

Announcement recently was made by Mrs. Kate S. Martin of Lowell of the engagement of her grand-daughter. Miss Priscilla Kennard, to Ralph A. Fletcher, son of Mr. and Mrs. Herbert E. Fletcher of Westford. Miss Kennard is a member of the Sewing Circle of the Season of 1916-17. Mr. Fletcher was graduated from the Massachusetts Institute of Technology in 1916, and later was in naval aviation in the war. A wedding in May is planned.

In honor of the betrothal of Dr. Paul H. Duff and Miss Frances E. FitzGerald of Peabody, Dr. and Mrs. John Duff of Charlestown gave a dinner party at their home, Dexter Row, Charlestown. Miss FitzGerald, daughter of Mr. and Mrs. John E. FitzGerald, is an alumna of Roxbury Academy, Notre Dame, and of Miss Wheelock's School. Dr. Duff is an alumnus of M. I. T. and received his degree from the Harvard Medical School in June. During the World War he was commissioned Captain. In September, Dr. Duff will join the staff of the Carney Hospital, South Boston.

The engagement of Miss Ruth Jerauld, daughter of Dr. and Mrs. F. N.

DAYLIGHT ILLUMINATION.

The angle of refraction being equal to the angle of incident, it is a simple matter to determine the correct angles to use in manufacturing glass which will give good illumination. But for proper industrial plant illumination, there is more to be considered than mere deflection of light. The direct beam of light must be eliminated in order to prevent sun glare, which is objectionable on account of its causing heavy shadows and strong contrasts which decrease the efficiency of employees and necessitate the use of shades which in turn reduce the light to such an extent that daylight illumination any distance from the light source is not sufficient. Therefore, in order to produce a glass which when used in the windows of industrial plants will produce as near to ideal illumination as possible, we must first eliminate the direct rays of the sun by deflecting the light to the ceiling and side walls which re-deflect it back to a distance 25 to 50 feet from the window throughout the entire working area. To accomplish this we have scientifically designed a type of glass which is named "Factrolite."

Factrolite consists of 30 ribs to the inch, running at right angles, forming 900 pyramidical prisms or 3,600 light deflecting surfaces which completely disintegrate the direct beam of light from the sun. Furthermore, the depressions in the surface of Factrolite are so slight that the accumulation of dirt and dust is minimized and can be perfectly cleaned with an ordinary dry scrubbing brush. Incidentally, the cleaning of windows is most important for keeping up production and increasing the efficiency of any industrial plant and should be given more consideration in plant management.

If you are interested in the distribution of light through Factrolite, we will send you a copy of Laboratory Report—"Factrolited."

MISSISSIPPI WIRE GLASS CO.,

220 Fifth Avenue,

St. Louis.

New York.

Chicago.

C. Jerauld of Buffalo, to Mr. Paul H. Taylor of Wakefield, was announced in July at a dinner given at the Niagara Falls Country Club. Miss Jerauld is a graduate of the Braemstead School. Mr. Taylor is an alumnus of M. I. T. He was several times cited for bravery during the World War and received the croix de guerre. The wedding is to take place in September.

Mr. and Mrs. Walter I. Reed announce the birth of a boy on July 24.

His name is Warren Nightingale Reed.

Miss Ellen Caroline Keliher announces the marriage of her niece, Esther Graham, to Mr. William Wolftone Drummey, on Tuesday the eighteenth of September, nineteen hundred and twenty-three, Jamaica Plain, Mass.

Mr. Arthur Newell Talbot announces the marriage of his daughter, Mildred Virginia, to Mr. Herbert James Gilkey, on Saturday, the eighteenth of August, nineteen hundred and twenty-three, Urbana, Illinois. At Home — University of Colorado, Boulder, Colorado.

1917

RAYMOND S. STEVENS, Secretary, Room 3-205, M. I. T., Cambridge, Mass

A most excellent new air port was opened in Boston on Saturday, September 8, and Seventeen was right on hand. We have the *Herald* for our authority.

"Another plane piloted by Lieut. Albert F. Hegenberger of South Boston, with Bradley Jones, naval engineer, from the Wright field, arrived at the airport from Dayton at 4.35. He left Dayton at 10 o'clock in the morning." The Herald report, next day, mentioned Professor E. P. Warner as one of the notables present during the opening ceremonies.

If the Review policy on photographs in the notes section were less stringent we would reproduce a portion of the Rotogravure section of the same paper where J. Paul Gardner was pictured in all his glory as a prominent part of

the great Portsmouth anniversary pageant.

Rad Stevens from Elgin, Illinois, visited Boston recently, his temporary residence being the Chapel. Rad still believes in the motto of his home port — "Watch Us" — and he made his point clear at Braves Field and the Longwood Cricket Club. Outside of a temporary and successful flurry in local politics his occupation is delineating the destiny of the largest department of the Elgin watch emporium with some 525, or was it 526, employees — mostly female. While strolling down Boylston Street with the Sec-Emeritus, traffic being suspended meanwhile, they observed Doug McLellan stepping from the tonneau of a nearby motor, his natty cap jauntily held aloft in his left hand, his right extended in greeting — alas not to Rad but to two fair young damsels. Rad and his companion passed unnoticed. Upon leaving Boston Rad headed for Philadelphia and was to call upon Dud Bell, who has written

PRINTING

An industry requiring an appreciation of the fine arts.

An industry requiring expert technical knowledge and mechanical ability.

An industry requiring an understanding of the sales problems of all industries.

When you buy printing, buy it where all the requirements of the industry are fulfilled.

The Murray Printing Company

At Kendall Square Cambridge recently complaining of the heat and the high cost of living like a gentleman. Rad expected also to call upon Penn Brooks at 40 Rector Street, where he is located with The Barrett Company. Penn left off making Fairy Soap and Gold Dust last July, and is understood to have preceded his present work by posing for Camel cigarette billboards.

Reports have reached Boston concerning the delightful hospitality extended to Technology visitors in Seattle by Neal Tourtellotte and Mrs. Toot. Among those reporting are Dean Talbot, Drs. Dewey and Bigelow.

The Sec-Emeritus recently made a hurried trip of about 8000 miles going by auto from Boston to Denver through the plasticity of Missouri and then by train to Yellowstone and Glacier National Parks. The weather was most accommodating and the journey was enjoyed by all excepting possibly the Glacier Park horses.

Bob Marlowe has recently been having trouble with a fellow Gothamite who is alleged to have most meticulously inscribed Bob's signature upon the backs of various and sundry negotiable instruments. The outcome is in the hands of the courts and the risk of libel forces us to withhold judgment.

The gastronomic habits of many classmates still provide us with copy when mail is scarce. Ted Bernard eats lunch at Walker and shoots pool for dessert. Likewise, Joe Doherty patronizes the Memorial but goes back to his office right afterward. Leon Keach is sheiking the waitresses at Schraffts. Then there is Louis Wyman, an occasional diner at Marstons, while Art Dickson entertains guests at the Engineers' Club and probably pities Larry Gardner who generally can be found overlapping a stool at Thompson's Spa. Bill Colleary patronizes the Adams House! And last, but not least, Stewart, the architect of our Freshman days, consumes sumptuous portions at the Lenox and while meditating over a glass of ginger ale, sorrowfully tells us that Ed Hutchinson now has three children. And by the way — John has recently left the Lenox to open a "place" of his own!

The official statistician reports that Seventeen is a marrying class. Several members fell by the wayside during the Summer. We have announcements of the marriage of Miss Julia Thurston Bope Metheany to Malcolm Cameron Brock at Akron, Ohio; Miss Edith Maxwell Robinson to Stanley Chisholm at Melrose, Mass.; Miss Regina Wright Howell to Robert J. Marlow at the Cathedral of the Incarnation, Garden City, N. Y.; Miss Selia Margaret Logan to Carroll C. Smith at Anaconda, Montana; Miss Agnes Gudrun Johnson to Erling B. Stockman at Long Island City; and Miss Eunice Marie Osborne to Walter A. Wood in New York.

C. H. M. Roberts is with the Tenney organization at Haverhill, Mass. His first duties there have been non-technical. — Stan Robertson and Ralph Sawyer recently took an extended southern trip.—Chester E. Ames became a telephone operator during the half-baked strike in New England this Summer. He is on the N. E. Tel. & Tel. Company's engineering staff and is a full-fledged town meeting member in Winthrop.—E. G. Polley is now at Lisbon Falls, Maine.—The engagement of W. B. Newell and Ann Christie of Savannah, Georgia, has been announced.

Dean Carl S. Ell of the School of Engineering, Northeastern University, announced recently the advancement of Emil A. Gramstorff, who has been made assistant professor of civil engineering.

Chambers Mehaffey is engineer for the Chambersburg Construction Company, Chambersburg, Pa., heating and ventilating specialists. Mr. and Mrs. Mehaffey announced the birth of a daughter, Frances Ellen, on August 5.—Mr. and Mrs. Irving (Deac) W. Young, Jr., the arrival of Marilyn Marsh on June 16 and Mr. and Mrs. Ted Bernard, the arrival of a son, John Frederick, on September 6.

Leon Keach accompanied Ken Reid, '18, on a New Hampshire roughing trip in September. Keach is reported to have lost his tube of mustache wax, but fortunately had a duplicate kit along.

Jim Wallis was in the earthquake zone in Japan, but according to cabled reports his usual luck was with him, and he still covers Asia for the Sullivan Machinery Company. Which reminds us—we have a letter from another resident of Japan, listed as in Seventeen, but who replied to our appeal to non-members of the Alumni Association, thusly:

"Your letter was received some days ago. I could not help to feel very unpleasant to read you met a seventeener who said that A. A. urges to join it to gather more of his money. Every Son of Tech. shuold be loyal to his alma mater, & consecuently & naturally ought to join A. A.

You classify me as a seventeener. But I do not think so, nor can not feel as such. Here I think it is better to tell you my career in Tech. I entered Tech in Sept. of 1916, and attended to the lecture of Electrical Machine Design by Prof. C. A. Adams, & that of Fourier's series and Spherical Harmonics by Prof. Baily. The next year I attended to Telephone Engineering by Prof. A. E. Kennelly, & engaged in a research work in his labolatory. By attending to these lectures I could see (1) how American professors conduct the class works, (2) what is the highest mathematics that Tech requirs for the degree of Ph.D. (3) what is the attitude of the noted professors toward the research in colleges, & how they guide research fellows. These were my chief objects to enter Tech. So I spent two academic years in your Institute only as a special student. My love for Tech is only thro these kind-hearted professors of high personality by whom I was instructed. Frankly speaking I think more of these professors than The Tech itself. I have not any experience as a real Tech boy. A. A. is, I think, the organization for, and of, and by these real Tech Boys. Every time when I read the class news, I am left alone far behind lonely. This is the chief reason why I am rather cold for A. A. Though every year I do not forget to write Christmas letters to my kind professors & think about The Sweet Land Of Liberty where I had so happy days, I can not help to feel that I am so far from The A. A. But to

Has the Syllogism Selling Force?

·· фильф

The Technology Review is a high-class alumni magazine, well up among the leading graduate publications. It is printed by Perry & Elliott Co. The conclusion that should spring to your precise minds is that it is printed by a high-class printer.

You can't estimate the quality and effectiveness of printing with a slide rule or log tables. It is not so exact a science as that. But there are elements that can be felt even if they can't be weighed.

Does your printer make helpful suggestions? Is he eager to take much of

the detail away from you? Is he equipped to get your work out on your schedule instead of his? Does the circular or booklet or catalog that he prints get the results you think it should? Are his charges reasonable and proper?

If your printer cannot answer "yes" to these questions, you had better look for another printer. Our clients will be glad to tell you how we fare in an analysis like this. We should be glad to have you investigate us.

-- dillip-

Perry & Elliott Co.

BOSTON, MASS.

146 Summer St. Tel. Main 3916

1917 Continued

know the news of The Tech and the American College boys' life I will subscribe the Technology Monyhly.

The dues of \$2 will be sent in a separate cover.

Very Truely Yours, Hyogo Mori.'

1918

JULIAN C. Howe, Secretary, 551 Tremont St., Boston, Mass. No notes received due to resignation of the Secretary.

1920

KENNETH F. AKERS, Secretary, 54 Dwight Street, Brookline, Mass.

To 1920 Men: Since last June, I have received possibly three or four engagement and wedding announcements, but have had scarcely a single letter from any of the gang. To uphold any prestige which we may have in the Review, we must get together and have a little hearty coöperation. I could get together a few facts concerning 1920's men from hearsay, but what we really want is some good, snappy letters from every one of you, which will show all those who read the Review that 1920 is stepping with the rest of them.

When you men write these letters, I will stay up nights, if necessary, to put them in chronological form, that they may be published in the subsequent issues of this Review.

It is up to all of you to come through in grand style. Don't disappoint

1921

R. A. St. Laurent, Secretary, 754 Morton St., Mattapan, Mass.

CAROLE A. CLARKE, Assistant Secretary, 528 Riverside Drive, New York, N. Y.

Summer's come and gone, so has Yom Kipper—but—never mind.

The first eighteen inches of this collection is the overset left from the July issue, so that with all news that came in this Summer with that on half only a small portion can get it—hence we'll try to much in little.

[Let us settle this matter before you go on, Mr. St. Laurent. When you say, as you have, just above that "with all news that came in this Summer with that on half only a small portion can get it" do you mean that on account of the portion the Summer was with half on the news, or that because the news was half on the portion but the small remove of the Summer could scarcely? If the former, we should say you found common ground for agreement with Gertrude Stein. If not, we have no bananas. In either case, God help the proofroom. Man. Ed.]

Oscar K. Bates, II, can be reached at 208 Harvard Street, Dorchester, Mass. Ken says, "I haven't left the 'Stute yet, — was first an assistant in Heat Measurements and am now an instructor."

Theodore W. Bossert, X (Ted), Aluminum Club, New Kensington, Pa., started with the Dahlman Construction Company, Milwaukee, Wis., as Assistant-Superintendent of Power House Erection and now is with the Aluminum Company of America, New Kensington, Pa., as Technical Director. To quote from Ted's letter: "Carl Leander, X, and I came together on the street the other day in one of the most beautiful cities of Pennsylvania and immediately began to renew our acquaintance. Incidentally, I might add that it sure is a relief to see a white man on the streets of this here hole. It seems to me you don't have to go to Chile for foreign atmosphere. New Kensington, Pa., is good enough for that.

"Carl is at present working on a job for the Dorr Company at the Penn Salt Company, Tarentum, Pa. From his enthusiasm I judge that his work is not unpleasant to him. I can say the same thing for myself at the moment. Up to a few months ago, I have been batting around doing not much of anything, mainly looking for work that would suit my taste. Meanwhile, I worked on a construction job on Lake Michigan, and then with the Harley Davidson Motor Company. So if you are contemplating the purchase of a good motorcycle, let me recommend the Harley. The Indian isn't in it, as we experts say. This new year I became connected with the Company whose name appears above, in their Technical Direction Bureau. To go into details would be a waste of energy as well as of your precious time, so I shall simply say that the work is great and at present leaves nothing to be desired, that is for the present."

John Campbell, XIV, is with the Asbestos Wood Company, Nashua, N. H., as Chemical Engineer and Research Chemist.

N. H., as Chemical Engineer and Research C. L. T. Carpenter, XV (Pop), c/o Morgan Harjes & Co., Paris, France, is a student at the University of Paris (Sorbonne) and writes: "Though I'm answering by return mail, this will be late in reaching you. It has been forwarded about a lot. I like your letter. It fooled me into believing it 'personal,' not 'circular' until I reached \$10,000 job business. You could never tempt a writer in the Quartier (so-called) Latin by offering him money. But give him a blank space, and, as you see, he will fill it up. Best luck. I'll ask Dad to send you a check. My money, being little and all in francs, wouldn't help you much, since the bust up of the latest treaty — if you've heard of it."

Victor Oliver Homerberg, X, 133 Peterboro Street, Boston, Mass., is an Instructor in Metallography at M. I. T. in charge of Metallographic Laboratory.

Edmund J. Howard, VIII (Ed), 69 High Street, Everett, Mass., was

first with the New York Telephone Company, Mt. Vernon, N. Y., as Assistant Plant Engineer. He has been transferred to the New England Telephone & Telegraph Company, 175 Adams Street, Dorchester, as Assistant Field Engineer, Plant Department.

John J. Healy, Jr., X, 25 Mayfield Street, Dorchester, Mass., goes forth each day to the Merrimac Chemical Company, Woburn, in the capacity of

Research Chemist.

Edson Irwin Schock, XIII (Ed), 507 West Oak Street, Louisville, Ky., is a teacher at the Manual Training High School, instructing in surveying, engineering and drawing.

John R. Hardin, I, 1314 Farragut Street, N. W., Washington, D. C., on leaving Cambridge worked on the design of reinforced concrete structures, U. S. Engineer Office, Washington, D. C., and is now Assistant to the District Engineer, Washington, D. C. District in charge of construction of the Georgetown Bridge. He says, "Just about through. Have had it open to traffic on several occasions in order to test approaches."

William J. Sherry, X (Bill), 1102 South Jackson Street, Tulsa, Okla., after spending some time as Chemist in the refinery of Shaffer Oil & Refining Company, at Cushing, Okla., on Chemical Research, became sub-surface geologist for this Company - geological work and evaluation of oil prop-

erties.

Rudolph Siegfried, XIII (Ashty), 58 Center Street, Ashtabula, Ohio, has worked from the lowly heights of a laborer with the Silurium Manufacturing Company-to his present position, where he is in charge of experimental and development work for the same Company. To quote Ashty: "The above Company is engaged in the manufacture of composition battery cases and my job consists of being the goat for whatever goes wrong throughout the process. In order to forestall alibis on my part have been ensconced in a well-equipped laboratory where I make passes with balances and extraction apparatus to mystify skeptical superiors. Everything going fine but I often miss the friendly counsel of the Seven Seas Club."

Geoffrey J. Greenfield, X-A, Templetown Coke Works, Consett County, Durham, England, is Assistant Manager of coke oven battery, Consett Iron Co., Consett County, Durham, England. He says: "Nature of workgrimy!"

Richard W. Smith, XII, is Assistant Geologist for the State Geological Survey, Nashville, Tenn.

M. M. Green, V (Manny), 754 Morton Street, Mattapan, Mass., is Assistant in Chemistry at M. I. T.

Alfred H. Fletcher, XI (Al), 247 Cochran Place, Memphis, Tenn., first joined the International Health Board, 61 Broadway, New York, N. Y., as Sanitary Engineer in malaria control work with headquarters at Memphis, Tenn., and is still with them.

Robert C. Dolle, XV (Bob), after working as city salesman for The E. H. Bardes Range & Foundry Co., Cincinnati, Ohio, has now become office manager of The W. F. MacConnell Company, Cincinnati, Ohio, Building Construction Reinforced Concrete Engineers. To quote Bob: "Of all my old classmates, I see Ollie Bardes most often and we have had many a pleasant time together. He is Vice President of The E. H. Bardes Range & Foundry Company, whose foundry is right around the corner of our general office warehouse and yards. He is married to one of the finest girls in town.

"Zam Giddens was in town several times this Winter. He is the same old smiling Zam. He is with a Chicago Paving concern, and travels in this territory.

"George Pollack is with a road machine company of Milwaukee, I believe. He was in town last Summer and we spent a very pleasant evening together. Haven't seen him since."

MERRIMAC CHEMICAL CO.

148 STATE STREET, BOSTON, MASSACHUSETTS

WORKS AT WOBURN AND EVERETT, MASSACHUSETTS

THE largest and oldest chemical concern I in New England.

FOUNDED IN 1853

Willard A. Emery, II, 4148 South Wall Street, Los Angeles, Calif., started with The Viscol Company, First Street, East Cambridge. He was employed as engineer in powerhouse (engines ran on producer gas), but is now with The Worthington Pump & Machinery Corporation, East Cambridge, employed as service engineer on locomotive feed-water pump and heater.

Arthur Esner, II (Art), is Mechanical Engineer in the Department of Tests, Atchison, Topeka & Sante Fe R.R., Topeka, Kansas. He started as Insurance Inspector with the National Bureau of Casualty & Surety Underwriters.

Raymond A. Snow, II (Benny), P. O. Box 1324, Huntington, W. Va., is doing valuation appraisal work with the Consolidated Light, Heat & Power Company, 10th Street & 4th Avenue, Huntington, W. Va.

H. E. McKinstry, VII, Casapalca, Peru, South America, is a geologist with the Cerro de Pasco Copper Corporation. To quote from Mac's letter: "Your plaintive appeal has softened my heart and I hereby come across with: (1) a letter (2) a filled-out form somewhat reminiscent of an income-tax blank, (3) a check. Due to the affairs and cares of this world and the snares of the devil, I have neglected to loosen up on alumni dues of past ages and as I am about to start on a forty years' wandering, I fear that the Review will never catch up with me, notwithstanding the efficiency of South American Post Office Departments.

"As for my personal history, it is merely a part of the short and simple annals of the poor. Thanks to flooded mines, the rainy season and the absence of Volstead, I may say that day by day in every way I am getting wetter and wetter. For over a year I wrestled with the geography and geometry of the silver veins of Casapalca, but have given them a temporary rest and at present with the aid and abbettal of 25 coca-chewing Indians, am sampling the Colquijirca Mines, near Cerro de Pasco. That is all. Would that I could write thrilling tales of some South American revolution. Would that I might chronicle the discovery of some buried city of the Incas or the unearthing of a lost Spanish treasure-chest. But alas, on the whole, life at 15,000 feet at the top of the Andes is, when you get over 'soroche' and accustomed to the caprices of mules, scarcely more exciting than existence in Rockport, Mass., and mayhap I shall soon return to Cambridge in search of adventure Quien sabe?"

Howard F. MacMillin, 318 West High Street, Mount Gilead, Ohio, after working some time in the Sales Department of The Hydraulic Press Manufacturing Company, Mount Gilead, Ohio, is now Director of Sales with this Company. On July 20, 1922, Mac married Corinne Miller and they now live

at the above address.

H. C. DeStaebler, 43 Wilde Road, Waban, Mass., began with C. E. Smith & Co., Consulting Engineers, St. Louis. His duties consisted of everything up to resident engineering bridge jobs. He is now with H. J. Sheehan, 183 Essex Street, Boston, as Mercantile Adjuster. Herb gives the following information about some of the rest of the gang: "J. B. Starkweather, I, is in Richmond, Calif., working with F. L. Miner, Jr., I, who is contracting with his dad .- C. C. Westland, XV, built roads all Summer and is now in an office in Dixon, Ill.-Louis Hurley, XV, is with his dad in Boston.-John Hull II, is selling bonds here in Boston as also is Ellis Dennett, II.-Art Rogers, I, is designing show cases here and is engaged to a nice Boston girl.-Dan McCarthy, XV, is in the heating business.-Fritz Lord, XV, is with the American Telephone & Telegraph Company or rather the N. E. Telephone & Telegraph Company.—Glen Fargo, IX-B is at the Harvard Business School. -Dadmum, ex-'21, is with the N. E. Telephone & Telegraph Company.-Ed Delaney, I, is with the city of Boston Engineering Department.

"I came here on the first of November. This part of the country is full of Tech men and I've seen a bunch I don't recall at present. Maybe some of the above are '20 or '22. If so, pardon. I'm studying law at night and though not an attorney yet, I collected my first fee yesterday - law's sure

This ends the overset. Now for something a little fresher.

On June 30, Lawrence W. Conant, XV, was married to Miss Dorrit F. Van Allen at Camden, N. Y. Heartiest felicitations to you, also to Edwin R. Clark, X, who on August 18 was married to Miss Bernice Rochemann in Providence.



BUFF Transits and Levels

are used on the largest work where utmost precision is required. New catalog just issued.

BUFF & BUFF CO., Boston 30, Mass. Rear 98 Green St., Jamaica Plain

MUNROE FELT & PAPER MANUFACTURERS OF PARCEL POST KRAFT



WRAPPING PAPERS, CARPET LINING PAPERS, CHEVIOTS AND OTHER SPECIALTIES

MILLS AT LAWRENCE, MASS.

OFFICE, 79 SUMMER ST., BOSTON

Among the engagements recently announced is that of Harvey E. Brown, X, 525 Franklin Ave., Palmerton, Pa., to Miss Evelyn Chipman; Samuel T. Drew, I, of Quincy, Mass., to Miss Emily C. Perry, and Samuel E. Linden, IV, of Pasadena, California, to Miss Lela Burton Allen.

Charles A. Morss, XV, 164 Chestnut Hill Road, Chestnut Hill, Mass., according to a late June local paper, became engaged to Miss Sylvia Brown of Dobbs Ferry, N. Y. Carl is with the Simplex Wire & Cable Company learning the business.

Ed Wylde, X, North Adams, Mass., has left Wilson Brothers Laboratory in Chicago to return to his home town as an instructor in the Science Department of the Drury High School.

Notice of the marriage of Miss Anita Helena Young to Edward W. Noyes, III, at Aitkin, Minnesota, on June 4, has been received. They will be at home at 3552 Dupont Avenue, South Minneapolis, Minn., after July 15.

Oscar Neitske, X and X-A writes a most interesting letter from Berlin-Dahlem, B/Fr. von Viebahn, Werderstrasse 24, all of which is worth quoting.

"Your letter of March 11 received with pleasure some time ago and as today is too hot to even drag myself to the Bier stube for a nice big mug of Munchener beer, I am going to spend it in writing all the letters I owe. It must be great to be in such a position as you are, where the daily variation from the average number of letters sent per day is greater than my total yield in a year.

"Thanks for the addresses. I was down in Bavaria a couple of months ago and looked up Gus in Munich, but he had moved on to Zurich, Switzerland. If you have any more dope from him as to where he is apt to be, let me know and I'll be on the lookout for him when I travel around.

'I don't remember what I last wrote to you, so excuse it if I repeat anything. As I remember it, the dollar stood about 50,000 when I last wrote. Soon after that the Government was able to give the mark sufficient artificial respiration so that it recovered gaspingly and the dollar was forced back to 20,-000 where the mark held the line for over two months. Along in May, however, it began to slip again, despite all cries of 'Hold 'em mark, hold 'em mark' and soon it was merrily shooting the chutes following a logarithmic curve, with the dollar headed for infinity, which I calculated it would reach at 3.15 a.m., July 9, by extrapolating the curve for the first week of June. The fact that the dollar was not infinity, but only 200,000 at the time, shows the danger of extra polation, what? Perhaps such a drop in the value of the mark doesn't mean very much to someone who hasn't seen it, but to us over here it means that one grand rush is made to buy things, because that is the time they are cheap, for the dollar usually rises three times as fast as prices are raised. It is getting now, though, so that all the shopkeepers are wise to that and just at present, with the dollar higher than it ever was before, things are more expensive, in dollars, than I have ever seen them here. Oh, well, it really was getting so I couldn't think of another thing I might buy. You ought to see the junk I've bought since coming here. Everything from recording thermometers to

Headquarters for LABORATORY APPARATUS AND CHEMICAL REAGENTS

EIMER & AMEND
Established 1851

NEW YORK, N. Y.

Third Ave., 18th to 19th Street

SAMSON CORDAGE WORKS

BRAIDED CORDAGE
AND COTTON TWINES



SASH CORD, CLOTHES LINES, SMALL LINES ETC. SEND FOR CATALOG MASS.



Spaulding-Moss Company

Manufacturing Blue Printers Photostat and Litho Prints Drawing and Artist Supplies

A. H. SPAULDING '14 P. B. TERRY '13 42 Franklin Street BOSTON Tel. Main 6000 etchings. I recently bought the new Enzyklopedie der Technischen Chemie, twelve big volumes, a peach of a set, for thirty bucks. I am already wondering how I'll smuggle them out of the country. The cheap prices for champagne are gone now. It costs two bucks a quart now. Inclosed is a flash light of an evening at home, while I still lived at the Countess's. I hope you don't get the impression that I drink, however, because of course that's all wrong.

"Sometime ago I made a couple of trips to Prague and Warsaw. Prague is in Bohemia, and Bohemia is certainly well-named, because the life is more Bohemian there than any other place. Even more so than in the famous Bohemian quarter of Paris. In Prague, which is, if you don't know it, the capital of Professor Lewis's famous Checko, there are seven universities, each of different nationality. The American Y. M. C. A. built a recreation hall for all students there and it is called the Studentski Domov, and when you get inside this place and listen a while, it sounds just like a conference of the hunkies on the coke ovens would sound. Then, much to your surprise, a Hungarian will sit down and play 'Smiles' or 'Margie' or some other popular American song of the same period, while a Russian quartet will compete with 'Auld Lang Syne.' Just how they keep the whole mob from cutting one anothers throats, I wasn't able to figure out, because they all come from those Eastern countries where every country is the mortal enemy of every other country. The Czeckish students last year decided to build themselves some dormitories because most of them had no place to stay, so they started building them themselves. This was the first time that students had ever been known to work, so the day they started there was such a mob of people there to see the unique sight of a student working that it was impossible to do anything. The next day, however, they made the curious populace pay admission to see it, and as I remember it, they collected enough in the first week to build the blooming dormitories.

"The trip I took to Warsaw, Poland, was very brief, but I came back with the most complete collection of bed bugs, fleas, and miscellaneous other bed fellows, that any man has ever had on him at one time, I'm sure.

"This last term I have been attending Einstein's lectures on the theory of

THE ATLANTIC WORKS

Incorporated 1853

BORDER, MAVERICK AND NEW STREETS, EAST BOSTON

Builders of Stationary and Marine Boilers

Steamships, Towboats, Steam Yachts and Heavy Machinery

CHARLES H. JOHNSON M. I. T., '05

New England Mutual Life Insurance Company
176 FEDERAL STREET Main 5571 BOSTON, MASS.

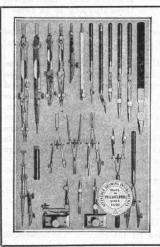
F. P. Montgomery, '02 Pres.

R. J. Marlow, '17, Treas.

F. P. MONTGOMERY & CO.

100 WILLIAM STREET

NEW YORK CITY



Alteneder Drawing Instruments

Appreciated the world over for their excellence and universally used by the expert engineer and architect

Catalogue on Request

Theo. Alteneder & Sons 1217 Spring Garden St., Phila.

relativity. Let me tell you, any time you get feeling cocky and think you know about all there is to know, just go listen to Einstein for a while. I have sat through a number of his lectures in which I didn't understand a solitary thing, and not because my German is poor, but because he was just eighteen miles over my head. And the way he throws the Greek alphabet around is a caution. Five minutes after he gets started, the blackboard looks like the lettering on the window of a fruit store in Athens. Sometimes he isn't so deep and I can understand him, and he is quite humorous at times. He has a very smooth and unruffled sort of personality, is very pleasant and answers all questions in a nice way, wears a trick hat, lets his hair grow long, and always carries an umbrella. I go to listen to him just because of his remarkable personality.

"I had intended to write you something about the life here in Germany, but I've overstepped my average of two pages per letter already, so will leave it for my next letter-writing behauch, which will be in the Winter.

"Regards to all of our mutual friends, especially Joe Lurie and Thomson, and let's hear the news of the gang. I don't get the Review. Haven't my dues been paid yet? By the way, that thousand mark note I sent you is now worth less than half a cent, better cash it in now before it goes down to a tenth.—P.S. Note I have moved but am still with the nobility."

Joseph C. Morrell, II, University Club, Bridgeport, Connecticut, advises that after taking a sales apprentice course with the Bridgeport Brass Company of the above city, he is doing sales engineering and gathering much experience. He is convinced that the latter is the most essential part of the first million, but he says he isn't married yet.

Scripps Booth, XV, writes that he has changed from the New England Oil Refining Company to the Cities Refining Company, 209 Washington St., Boston, Mass., where he is in the Sales Department.

Wm. B. Plummer, X, 367 Sterling Place, Brooklyn, New York, writes that he is in the Research Laboratories of the Combustion Utilities Corporation, 125-133 Van Dam Street, Long Island City, New York.

Mark L. Ireland, VI, was formally presented with a Distinguished Service medal for "exceptionally meritorious and distinguished service in a position of great responsibility." The citation states that Major Ireland displayed sound judgment, executive ability of high order, and unlimited devotion to duty, contributing markedly to the successful operations of the Motor Transport Corps of the American Expeditionary Forces. This citation was given May 2, 1923 at Ann Arbor, Michigan. Major Ireland was Chief of the Repair Division, Office of the Director, Motor Transport Corps, American Expeditionary Forces.

G. Mottelson, X, 1350 Jackson Boulevard, Chicago, Illinois, writes that he now has the job which Ed Wylde, X, had when with the Wilson Laboratories, a subsidiary of Wilson & Company, the packers. Among Goodey's duties is that of chasing down John the Baptist (the boiler room fireman when he has stepped out for a beer, and the steam pressure has dropped so far that a vacuum pump refuses to budge).

Victor Hassold, II, 107 Gowan Avenue, Mt. Airy, Philadelphia, Pa., writes that after leaving the 'Stute he enjoyed a month's house-party at the Muskoka Lakes in Canada, and survived without becoming engaged or married, and also didn't have a sunstroke. He thereupon entered the Philadelphia Dry Machinery Co., doing testing work. He soon left to join the Steel Heddle Mfg. Co., first in a pair of overalls, and later with a white collar as Assistant Superintendent—that, of course, does not mean that he isn't working as hard as before—quite the contrary.

Robert F. Miller, XV, 140 Ravenwood Avenue, Rochester, New York, is Assistant Production Manager of the Pfaudler Company, Rochester, New York, learning about the tricks of manufacturing glass-lined equipment.

Samuel E. Morton, Jr., II, Brookhaven, Mississippi, is Vice President of the Central Lumber Company in the above location. Sam says that S. E. Travis, Jr. (Ed), is half owner and Manager of the Weldmech Company of Hattisburg, Mississippi, and that he has a bunch of about twelve men doing electric thermet and gas welding for a select clientele in the whole of south Mississippi.

A. Warren Norton, XV, 6 Montague Terrace, Brooklyn, N.Y., is handling the national rotogravure advertising with O'Mara & Ormsbee, Inc., of 320 Fifth Avenue, New York City. The mid-year exam sent in by Warren showed real talent, "not married—no children—but there are going to be twins—named—'Gold Dust'—with the motto 'Cleanliness.'"

Kenneth H. Pratt, V, 226 Ocean Street, Lynn, Mass., is Research Assistant and Chemical Engineer in the Thomson Research Laboratory of the General Electric Company in Lynn.

Raymond C. Fisher, VI-A, 508 Sheldon Building, San Francisco, in June, 1922, pulled stakes in Cambridge and along with Ted Rose, VI-A, and Ralph Wetsten, VI-A, sailed westward in a gas-motored schooner. Events of interest were ruts, Iowa mud, dust, rain, North Dakota mud, nice juicy bottomless clay, South Dakota mud, rocks for bed pillows, more rain, Montana mud, speed cops, burned bearings,—ad fin. Ray is in the Transmission & Protection Department of the Pacific Telephone & Telegraph Company in San Francisco. He says that Ted Rose is Research Assistant under Professor Dellenbaugh in the Electrical Engineering Department at M. I. T. and Wetsten is in Newark with the Public Service Company of New Jersey.

1922

ERIC F. HODGINS, General Secretary, Room 3-205, M. I. T. Course I

J. F. HENNESSY, Secretary, 16 Henry St., Brookline, Mass.

Doc O'Connor is in Illinois working for the Highway Department of the State. You will remember that he put up a howl last year when I reported this fact. He did not know, you see, that I was merely anticipating. Bill Rapp is still with the Bethlehem Steel and at last accounts was located in Philadelphia.

John Vaupel is to be married on October 6, to Miss Maude Chandley in Brookline.

Course IV

GEORGE S. HOLDERNESS, Secretary, 17 Gramercy Park, New York, N. Y.

After a Summer fraught with much pencil pushing and two fine weeks down South, it again is time to elucidate upon the doings of the old grads.

At this time the so-called grads are smeared over the landscape from Oregon to Serbia, with a smattering at nearly every way-station. There was a time when any megaphone-voiced member of our class (Dimmock for instance) could and did make himself heard by all of his classmates at once. Today it is easier to get news of a crop failure in Turkestan, or a cloud-burst in the Andes, than to hear from some of the old-timers. However, and notwithstanding, we have managed to get the "low down" on several of the old playmates, and we take great pleasure in offering it for your perusal. And we might say, in passing, that a large part of it is based on the truth.

In order to draw the field of action into a hemi-spherical focus as soon as possible, we will first take up and dispose of the report from Serbia. As we get the news, and he writes it himself, Ilya Georgevitch has passed safely through turbulent Western Europe, and now is back at his home, which he had not seen for, lo, these eight years. By our estimate, unofficial though it is, this prolonged absence has saved Ilya participation in eighty-seven major and minor wars, and prevented his witnessing seventy-three coronations in his own and neighboring countries. The Benvenuto of the Balkans intended to enter the professional ranks of architecture shortly after arriving at home, but his plans were all messed up, and he entered the army instead. He writes that he is going to do nine months under the colors in order to assure himself a higher rank in the Reserve Corps. A wise bird, Ilya! He figures that when the next fracas rolls around he wants to get in on the boots and spurs before they are all gone. But, which is more to the point, he says there is a great opportunity for architects in Serbia, and he strongly advises anyone who likes the climate to come over at once. His address is I. G., Architect, Zaitchar, Serbia, where he would like to hear from any and all of the old Whatman Embellishers.

Moving westward, we find Margie Pierce travelling, and Dirkus Luyks living, in France. Marge allows that France is the Duck's Knuckles, architecturally speaking, and that she has seen several buildings that positively surpass anything in the Back Bay. That's covering a lot of ground, Margel It is all right to enjoy yourself, but you simply must be more respectful when speaking of a city of Boston's age.

As mentioned before under these auspices, Dirk is doing his stuff for M. Gromort in the E. of B. A., and we hear that he brings home the bacon frequently. With which we leave the globe-trotters, and take up the offensive at home, where we know more about what we are saying.

Again with a view to territorial confinement, we consider and hope soon to dispose of the name of H. T. Heitschmidt, the Portly Prince of Portland. Like the rest of us, Chubby came to New York for experience, — to learn what the big town has to teach. When he discovered that he had run through it all, and was going over it again, he packed his Dodge full of Beaux-Arts plates and a bottle of fat-reducer, and, with his wife, set out for the Golden West. He hasn't dropped us a line yet, but we hope and trust that the Pacific Coast, from Tijuana to Esquimalt, has begun to sit up and take notice.

In Chicago, Bert Weber still vexes the Van Dyke for Howard Shaw, who must be eminently satisfied with the way Bert does it. Which is as we expected. Bert took part in the contest for the Tribune shack, and romped home with an Honorable Mention, for which we present him with a brand-new chocolate-colored Fedora. Mark Ellsworth also lives in the city of man-size zephyrs, and is married, in addition. The readers may or may not remember our congratulating Mark on selecting his bride from Louisiana, which is just south of the Wonder State. At any rate, our judgment is vindicated. Roz Pfohl has given the young lady a close personal scrutiny, and he reports that she is there with the goods. Which makes us say "We told you so," and again to give Mark a resounding thwack on the back. Baldy has left Chicago, and is ornamenting the Alba for a Baltimore architect, whose name we wot not at this time.

In New York, as usual, there is something doing. The status quo is practically the same as at the last report, that is to say everybody is hard at work and penniless. Let us not omit, however, that epoch-marking day which brought into our midst Cassius Gilbert Amon, that Southern gentleman of the old school, that peer among architectural draughtsmen. As is his annual custom, Professor Emerson sent the most brilliant member of the class to work for his favotrie New York firm, Delano and Aldrich, and so we now find Cass sitting under a little round window and drawing many others, of that kind for which his new office is so justly famous. Later, we got Al Pierce to help restore our fast-fading architectural morale, so that, all in all, we are doing right well, thank you. Chris and Cass are doing B. A. I. D. work, as well as attending all first nights, by the party of the first part, and trying to dodge traffic, by the party of the second part. Ross Wiggs is snugly esconced with his bride at 119 Washington Place, and Marion consistently wears his gloves and cane, like the true boulevardier that he is. If we may insert a brief snatch about ourself, it is to this effect. We decided, while vacationing in the South, that New York is one h-l of a place in which to live. With this in mind, and a consequent desire to broaden our field of experience, we

Professional Cards

A Directory of Technology Graduates and Other Qualified Engineers

FAY, SPOFFORD & THORNDIKE

CONSULTING ENGINEERS

200 DEVONSHIRE STREET, BOSTON

INVESTIGATIONS

REPORTS

DESIGNS ENGINEERING SUPERVISION

ENGINEERING MANAGEMENT

BUILDINGS

FOUNDATIONS

PORT DEVELOPMENTS RIVER AND HARBOR WORKS

HYDRAULIC DEVELOPMENTS

INDUSTRIAL PLANTS

WATER AND SEWERAGE SYSTEM

STANLEY G. H. FITCH

CERTIFIED PUBLIC ACCOUNTANT Boston, Mass.

131 State Street of PATTERSON, TEELE & DENNIS

New York, Boston, Washington and Baltimore

WILLIAM T. REED COMPANY

BUILDING CONSTRUCTION

200 DEVONSHIRE STREET

BOSTON 9, MASS.

CHARLES S. GOODING, '79

Solicitor of Patents Mechanical Engineer

27 SCHOOL STREET

BOSTON 9

JOHN C. TRAUTWINE 3D., C. E.

Member, American Society of Civil Engineers Member, Franklin Institute

RESEARCH AND DEVELOPMENT

SPECIAL SURVEYS COMPILING AND EDITING BOX 6509, UPPER DARBY BRANCH

PHILADELPHIA, PA.

1922 Continued

left our happy home and hired out to Mr. John Russell Pope. And we aren't doing apartments any more!

We have been asked by the parties involved to announce that G. Dozie Swan, of our estimable class, has cast his lot for life with Miss Mary Flett, of Melrose, and that they are as happy as two cooties in a quilt in their little apartment in Boston. In behalf of his classmates, here's wishing them a lot of happiness, and many returns of the day. Anyone desiring the address of the newlyweds can have it by writing to X. Y. Z., New York City, and mentioning the Technology Review. We are sorry, but we don't know it.

With which we begin the end. There really was very little to say, and we have said it at considerable length. Our address is the Technology Club, 17 Gramercy Park, New York, and if we fail to get a line from everybody before it is time to write the next letter, we'll be sorely disappointed, to say nothing of being vexed and discomfited. For, it is written, how sharper than a serpent's tooth it is to have a write-less class!

METCALF & EDDY 14 BEACON STREET, BOSTON, MASS. Consulting Engineers

LEONARD METCALF, '92 HARRISON P. EDDY CHARLES W. SHERMAN, '90 ALMON L. FALES FRANK A. MARSTON

Water Works, Sewerage Works, Industrial Wastes, Municipal Refuse, Drainage, Flood Protection, Supervision of Construction and Operation, Valuations, Laboratory for Chemical and Biological Analyses.

CHARLES T. MAIN

ENGINEER

200 DEVONSHIRE STREET, BOSTON, MASS.

Dugald C. Jackson

Edward L. Moreland

IACKSON & MORELAND CONSULTING ENGINEERS

387 WASHINGTON ST.

BOSTON, MASS.

GEORGE P. DIKE

Attorney-at-Law and Solicitor of Patents 350 Tremont Building, Boston, Mass.

of MacLEOD, CALVER, COPELAND & DIKE, Boston and Washington

P. F. MAHER, '17

Public Accountant

7 JUSTIN ROAD, BRIGHTON, MASS.

Audits Investigations

Systems

Tax Returns

ATAHUALPA GUIMARAES

Société Generale,

Paris, France.

Assignments solicited for technical and commercial investigations, inspection of equipment, and general service in all European countries.

11 - 23

Courses V and X

S. PARKER McConnell, Secretary, 187 1/2 Fairview Ave., Jersey City, N. J.

They tell us "All good things must come to an end," even Summer holidays in which we find respite from Review notes. A letter from our beloved gensec the other day brought this matter to my immediate attention. In it, in his quaint but forceful style, he informed me that this Summer philandering must stop, that with the coming of Fall we must again take up the stern duties of M. I. T. Alumni, and that far up in that list of duties is the informing of our classmates of just what we are doing, and even (sometimes) why.

All Summer long I have been fondly cherishing the thought that the compilation of these particular notes would be a pleasure rather than a stern duty. In my mind's eye I could see a three months' collection of letters from my faithful coursemates cluttering up my desk, from which I could proudly

Addresses Wanted

Mail has been returned to the Alumni Office from the address given below for the following Former Students. Information is desired concerning them, that they may be kept on the mailing

> ARTHUR T. HOPKINS, '97 Secretary of the Alumni Association.

SATTHUR T. HOPKINS, '97

Secretary of the Alumni Association.

SAMUEL BARRON, '18, 180 St. Nicholas Ave., Apt. 52, New York, N. Y.

CORA, G., BEIL, '18, 201 East Fourth St., Cincinnati, Obio.

G. DONALD BRADIEY, '18, Corner 1926 St., Winter IIII, Mass.

JOHN H. EARL, '18, Doylestown, Pa.

ABRAHAM JESSEN, '18, 6 Novell St., Dorchester, Mass.

CHARLES C. LONG, '18, 817 Cedar St., El Paso, Texas.

GRARLES C. LONG, '18, 817 Cedar St., El Paso, Texas.

CHARLES C. LONG, '18, 817 Cedar St., El Paso, Texas.

ALBERT A. SAUNDERS, '18, 164 Roseter St., Dorchester, Mass.

ALBERT A. SAUNDERS, '18, 164 Roseter St., Dorchester, Mass.

ALBERT A. SAUNDERS, '18, 164 Roseter St., Dorchester, Mass.

PINO. SEE KING, '19, 298 North Ferry St., Schenectady, N. Y.

GUSTAY LEVY, '19, 2866 Boulevard, Jersey City, N. J.

V. B. MCCLURG, '19, 236 North El Centro Ave., Los Angeles, Cal.

GW. KENNETH PIKE, '19, 44 Massachusetts Ave., Cambridge, Mass.

RUSSEL, J. WIDDOWSON, '19, 173 West 70th St., New York City,

ARTHOMY AMARIE, '20, 307 High St., Clinton, Mass.

DONALD M. FERRIS, '20, 40 Wells & Newton Co., 292 Ave. B., New York City,

EVERETT W. FULLER, '20, 40 Mountford St., Boston, Mass.

CHARLES G. HAYE, '20, 16 Remington St., Cambridge, Mass.

CHARLES G. HAYE, '20, 16 Semington St., Cambridge, Mass.

CHARLES G. HAYE, '20, 16 Semington St., Cambridge, Mass.

CHARLES G. HAYE, '20, 16 Semington St., Cambridge, Mass.

CHARLES G. HAYE, '20, 20 Burton Halls, 10 Dana St., Cambridge, Mass.

CHARLES G. HAYE, '20, 20 Valparaiso, Chile, S. A.

YO LAMA CHALLES, '20, 40 Solem St., Reading, Mass.

OSCAR A. ANDERSSEN, '21, 5 Dans St., Cambridge, Mass.

OSCAR A. ANDERSSEN, '21, 5 Dans St., Cambridge, Mass.

OSCAR A. ANDERSSEN, '21, 5 Dans St., Cambridge, Mass.

MAYWELL K. BURCKETT, '21, 36 S0th Ave., Newark, N. J.

YO LAMAY CHALLES, '21, 32 SUBJECT AND ST., SCHOLAN, N. J.

YO LAMAY CHALLES, '21, 32 SUBJECT AND ST., SCHOLAN, MASS.

HINNY H. CHARLES, '21, 302 Broadway, Cambridge, Mass.

OSCAR A. ANDERSSEN, '21, 17 Holmes St., Malden, Mass.

HENNY H. CHARL

1922 Continued

pick and choose only the most spicy and interesting items, in preparation of what was to have been our masterpiece. But all that, dear readers, was an illusion quite pure and very simple. That Summer harvest adds up to one letter, two postal cards, and one newspaper clipping! So if these notes seem more or less sketchy in spots, please remember that they are coming in large part from thin air and Dame Rumor. Apply your own Factors of Safety.

The man I wish to nominate this month for the Hall of Fame, for faithfulness to duty, is one Lawrence W. Trowbridge. Trow sent me a letter way back in June telling of his recent transfer to the International Engineering Works at Framingham, Mass., and although he did not say so, I assume it is in the capacity of Engineer. He was most enthusiastic regarding the prospects of the new job and we wish him all the success in the world, if for no other reason, because he wrote and told us about it.

Cliff Gayley and Les Bridahan, veterans of X-A, have been spending the Summer abroad, -not bad, what? Although they sailed on different boats, I gathered that they arranged a rendezvous or so along the line of march, notably in Paris. In my dreams I can see those two strolling along the Boulevard des Italiens, enjoying life to its fullest, when Lester, always a creature of habit, suddenly clutching friend Cliff by the arm, points immediately ahead and murmurs, "Boy, that sure would be a good figure to have!"

A clipping from the Fitchburg Sentinel of July 3 informs us that "Preston Robinson of Brookline, Mass., received his Master's degree from the Massachusetts Institute of Technology last month. He has been appointed an instructor at the University of California, Berkeley, where he will work for a Doctor's degree."

Dave Minton is in Los Angeles, Calif. I agree with you, that is a darned dangerous place to turn Dave loose, but, at any rate, he puts in his time from nine to five, selling bonds. Knowing Dave as I do, I would like to spread myself a bit further right here, but the gensec would delete it, anyway, so why bother?

What is to me the choicest and most interesting bit of current information, I have saved for last. Henry Landis is married! When last heard of, Henry was living in comparative safety in his native heath, Chicago. Then out of a clear sky, a few days ago, word reached me that he is in New Brounfels, Texas, and - let me repeat it - married. And that, so to speak, is that. The fond hopes of his most intimate friends that he might some day suffer the pangs of unrequited love which we feel he so richly deserved, are blasted. Be that as it may, Henry old boy, we sure wish you all the joy and happiness, and success in this little old world, - and you deserve that too.

Course XI

Francis J. Laverty, Secretary, 1400 E. 53d St., Chicago, Ill.

Several of the Sanitary Engineers have made changes during the Summer. Bill Wise is now connected with Morris Knowles Co., Inc., of Pittsburgh, Pa. His new address is 5526 Center Avenue and he would be glad to hear from any of the gang. Freddie Almquist is working in New Jersey but other than that nothing can be said. He is probably working as a mosquito eradicator. New Jersey ought to offer plenty of opportunities along such lines.

His new address is 80 Stevens Avenue, Little Falls, N. J. Warren E. Howland of Athens, N. Y., who has been doing research work under Professor Whipple, of Harvard, has left that position to come to Chicago to accept a position with the Sanitary District of Chicago. That makes three of us here and also increases the comfortable margin in the Course XI distribution that Chicago has enjoyed.

While returning from my vacation this Summer I had the extreme pleasure of visiting Dan Moynihan on his own home grounds. I most strongly advise any who are passing through Buffalo to stop long enough to see Dan, but no longer. He is in the Biology Department at Canisius College and is doing a good job, according to himself.

As far as can be determined, Jim Stalbird is still with Weston & Sampson, Sanitary Engineers of Boston, and is working at Wanaque, N. J. Hal Wilbur still holds forth as a successful business man and not according to himself, either. Zack and I are still in Chicago.

Among the latest arrivals here are Charlie Bray and Scotty Westcott who is back here for another few months. Both of these men claim Course XV when no one else is around.

1923

R. E. HENDRIE, Secretary, 47 Fairmont St., Cambridge, Mass.

H. L. Bond, Assistant Secretary, M. I. T., Cambridge, 39, Mass.

After being roundly "balled out" by the honorable Managing Editor of the Review for lateness, we hereby submit our story of the ramblings and scramblings of 1923. We seem to be most everywhere and doing most everything. Let your Course Secretaries hear from you, fellows. We all want to know what the other fellow is doing and who he married.

I want you to know, fellows, that although news of Course XV classmates is headed, as a matter of form, as furnished by E. H. Miller, this was actually supplied by your Assistant Secretary. As a matter of fact, Secretaries for Courses I and XIV were the only ones who did furnish any information.

Course I

J. M. Robbins, Secretary, 42 Oak St., Belmont, Mass.

As the time approaches for the first notes of our class to go to press, your Secretary finds himself very short of material. A few men have con-

Classified Advertising

Mail may be addressed to a Box Number in care of this magazine and will be promptly forwarded to the Advertiser. Other than this, the Review assumes no obligation. Such address counts as five words.

RATES-Positions Vacant: No display, 6 cents per word, minimum charge \$1.50, payable in advance.

Positions Wanted: No display, 3 cents per word, minimum charge \$0.75, payable in advance.

Display advertising is charged at regular advertising rates, which will be furnished on application.

The "Positions Wanted" Column is open only to Members of the Alumni Association in good standing.

Positions Vacant

AN experienced mechanical draftsman, familiar with machine design, is wanted by a reputable firm of machine tool builders located in Connecticut. In reply give age and a detailed account of experience. Address Technology Review, Box 3035.

MEN in Electrical, Mechanical and Engineering Administration Courses who, for satisfactory reasons did not complete their work last June, and who will be completing it some time before the first of next year, are wanted to take up the training course offered by one of the largest national manufacturers of incandescent lamps. Application blanks will be sent upon request. Address Technology Review, Box 3038.

RECENT graduate interested in advertising business is wanted to assist an established advertising agent on a part time basis. In return for this assistance, young man will be given personal charge of certain accounts with profits accruing therefrom. Some experience is necessary. Address Technology Review, Box 3040.

R ECENT graduate wanted for plant research on abrasive materials. Sound technical training and thoroughness are considered necessary attributes. This position offers a splendid opportunity to become acquainted with the technical aspects of the abrasive industry. Address Technology Review, Box 3037.

RESEARCH man, trained in Physics, especially Mechanics, with at least 5 years' experience, is wanted for the experimental department connected with a large and successful manufacturing plant located in central N. Y. State. Permanent position for a properly qualified man. Address Technology Review, Box 3039.

SPLENDID opportunity for graduate with several years of experience in the manufacture of steam and hydraulic machinery who wishes to enter the foreign field. Candidates must be able to speak French, as the location will be in the vicinity of Paris. Address Technology Review, Box 3036.

1923 Continued

tributed well and deserve much credit. From the others, we hope to hear more in the future.

Eddie Schatz was the first to report. As nothing has been heard from him since, it would seem that he is resting on his laurels. Eddie is working on an earth dam in Moscow, Pa., for the Spring Brook Water Supply Co. of Wilkes-Barre. Neck Gilman and Charlie Wenz are reported to be with the Illinois Highway Commission.

I ran into Alec Stewart in the subway the other day. After assisting at the 'Stute the first of the Summer, Alec went with the George A. Fuller Co. of Boston and at present is an inspector on a construction job in Northampton. No doubt there is much to inspect up there since Smith has opened.

Art Stuckey reports most interestingly from Dadeville, Ala. Spike Evans, Eddie Pomykala and Jeff Hails are with him on a job for the Alabama Power Co. Spike got stuck in the office while it seems that Pomy has a habit of getting stuck, or rather lost, at night on the wooded banks of the Tallapoosa.

George Barnes was Assistant Engineer in the Sewer Department of the Boston Metropolitan Water Commission this Summer. By this time we believe he is teaching Highway Engineering at the University of Florida.

Bill LaLonde left the telephone company early in July and is now with the Southern Pacific Co. in Sacramento, Calif.—Allen Parker went West with Bill and is now off the coast of Alaska in the Coast and Geodetic Survey on the "Explorer." Apparently, he is too seasick to write very often.—Abe Kenney and Aubrey Seels are with the Chicago Iron and Bridge Co. At last accounts, Aubrey was somewhere in Texas.—The inseparable army pair, Teale and Jones, are also down Texas way, I believe, on service with troops.—McQuiston was last heard from in Sanford, Maine, where he was on a job for the Turner Construction Co.—George Walker is with the Cleveland Union Terminals Co.

Si Rice, Ollie Hooper, Art Davenport and I served as a assistants at Summer Camp during August and September. Rice and Hooper are to be at the 'Stute this Fall as assistants. Si reports that Bert McKittrick is working for the Bethlehem Steel Co.—Early in the Summer I saw Freddy Brittain, who was at that time working for Weston & Sampson on a survey for a main outfall sewer for the town of Andover.—Bobby Burns is reported to be doing well on a job of the Dwight P. Robinson Co. in Providence, R. I. It is rumored that Bob is conducting a hash-house business as a side line.—Phil Kershaw can be reached through the Lockwood-Greene Co., of Boston.—

Positions Wanted

ENGINEERING Accountant, Technology graduate in Civil Engineering, 1912, wishes position as assistant auditor or cost accountant with firm of contractors or engineers engaged in railroad, highway, dam or similar construction. Several years' experience in field and office on railroad construction and valuation, including three on analyses of building, grading, and track costs. Graduate in Accountancy from a recognized school. At present in accounting department of an automobile manufacturing company, broadening accounting experience and preparing for Illinois C. P. A. examination. Thoroughly familiar with French language and would consider locating abroad as well as in the States. Desires to change connections in order to make full use of training and experience in the two professions rather than in accountancy alone. Address Technology Review, Box 2051.

GRADUATE with over twenty years' experience in mechanical and automotive engineering combined with executive duties is available for a connection as general manager of a moderate sized business, preferably in the metal or automotive line. Thoroughly competent to direct manufacturing and sales and can show a successful record of eight years as a general manager. Address Technology Review, Box 4009.

MATURE business man with long experience in handling business problems of broad scope desires an interview with some manufacturer who wants a suitable and capable man to handle the sales end of his business. Compensation desired in the vicinity of \$10,000 per year, although a lower figure would be acceptable if it carried with it a real opportunity. Address Technology Review, Box 4004.

MECHANICAL Engineer with ten years' experience, at present engaged as chief mechanical engineer for a very large New England manufacturing concern, is desirous of finding an opportunity for increased responsibility and consequent earning power. Can show first-class record, having been with the same firm since graduation. Address Technology Review, Box 4003.

NINETEEN HUNDRED AND NINE graduate with a broad engineering and administrative experience is seeking a permanent connection as an executive in a well-established manufacturing business. Can furnish exceptional references and is willing to locate in any part of the United States. Unless opportunity offered is very exceptional, \$500 per month will be the minimum salary considered. Address Technology Review, Box 4007.

PLANT Manager or Executive—Technology graduate in Mechanical Engineering with twelve years' experience in operation of large machine shop with grey iron foundry on light and medium quantity and quality work desires change. Thoroughly conversant with all branches of plant management, including engineering, purchasing, production, power generation, maintenance, insurance, etc. At present employed. Address Technology Review, Box 2050.

WANTED. Position with future. Made 'Tech' in less than four years. Two years' experience. Former Chemical Warfare Service man. Some graduate work at New York University. Have been all over the United States. Chemical or Radio work preferred. Single. Age 26. Address Technology Review, Box 2049.

Someone told me that Ted Crowley was doing something, what it was, he didn't know. The important point is that Ted was actually doing something.

This is the accumulated news of the entire Summer. Don't forget that we are due to perform again in a month and that news is urgently needed.

Course II

HAROLD B. GRAY, Secretary, 25 Stone St., Cliftondale, Mass.

Harry Kelly is with the Boston & Albany Railroad as an engineer's assistant.

We hear that Roger Cutting is going to instruct at the 'Stute this year. He left the ranks of single blessedness in September, when he married Miss Florence Lufkin.

Course III

Benjamin P. Lane, Secretary, 7 Williston Road, Auburndale, Mass. Sherwood Roger has accepted a position with the American Casting Co., in Milwaukee, Wis. He will be in charge of castings.

Course VI

ALBERT J. PYLE, Secretary, 110 W. 30th St., Wilmington, Del.

Alva B. Morgan is engaged to Miss Mary E. Wetherell a Mount Holyoke

Powell Robinson's engagement to Miss Ruth Taylor was also announced last June.

Johnny Brown married Miss Katharine Greely in the Old South Church last June. Best wishes to the pair.

Course VII

EARLE A. GRISWOLD, Secretary, Griswoldville, Mass.

A \$1000 fellowship was granted to Bernard E. Proctor, which permits him to study further into chemical research at Boston University. We take our hats off to you Bernard.

Course XIV

FRANK M. GENTRY, Secretary, 124 E. Maxwell St., Lexington, Ky.

I am writing these notes on my own letterhead, "Frank M. Gentry, Consulting Electrochemical Engineer, etc." but so far, this letterhead has obtained for me more amusement than cash.

Most of XIV, '23, must be in a state of catalepsy for our friend, H. L. Cobb, is the only one who has ventured to write. He had reached Put In Bay, Ohio, the 27th of June on his transcontinental hoof. He said he found Dave Joy at the National Carbon Co., Cleveland. Some place for dirt, he said. By the way, a preprint of Dave's thesis has been issued by the American Electrochemical Society for publication in its Transactions. Congratulations, Dave! The preprint says "discussion invited." What do you say fellows, that we give him a corking good discussion?

The last I saw of John Little was while he was waiting for a pullman to take him South. He is working for the Johns-Manville Co., Waukegan, Ill. I wonder why he went South for three weeks?

Chan Clapp has been planning to start a corporation to manufacture diamonds. He is to be the treasurer of the company and only one little detail remains to be worked out — how to fuse carbon. Don't get excited, he already has a waiting list of assistant treasurers.

Dr. Whitney, Director of the General Electric Research Laboratory and an old friend of Dr. Goodwin, has been elected a member of the corporation of M. I. T.

Announcement has been made of the engagement of Roscoe Smith to Miss Eleanor M. Sutton. Smith is now located in Cleveland.

For lack of any other news, the scribe is taking vertebrate zoölogy and having a pleasant time carving up Felis Domestica (our family cat).

Fellows, send your addresses as soon as you get located to Box 1699, Boston, Mass. Let me know what you are doing and what the rest of the class is up to.

Course XV

EDMUND H. MILLER, Secretary, 547 Lake Ave., Rochester, N. Y.

In making up any alumni notes about the men in a class that only got through last June, it seems like writing about things that haven't happened yet. We know what a good many fellows were about to go into, but little record is yet available, and but scant returns have come in as to results up to the present. We have a few facts about the men and we'll shoot those along, and gather in the rest for next time.

Kitty Kattwinkel is nearby to the Institute, as he is doing production work at the Page & Shaw factory.

Hall Kirkham has been working from about the middle of July with the Bausch and Lomb Optical Company at their new spectacle works in Rochester, N. Y.

When Joel Lund pulled out for St. Louis, his home town, last June, he expected to put in his time for the immediate future doing production work at his father's shoe factory there. His roommate, Johnny Nason, had stated that his wild dream for the future was a fond ambition to shovel sand for the Columbian Foundry Company, at McKeesport, Pa.

Sambo Gordon thought last June that he would probably be working as a salesman with the Cox & Gordon Packing Co., in St. Louis.

Al Hayes, we believe, wanted to be a school-teacher.—Ray Holden has accepted a job with the Dorr Company, engineers. He started in a regular training from which there is opportunity to work up to probable sales work.—L. L. Holmes is with the Boston Chamber of Commerce.—After passing up a considerable number of promising openings, Mouse Jackson has signed up with the General Electric Co. at Lynn.—Ben Cooper was reported to be in Germany in August.—Waldo Fox was last heard from in Chicago en route to Texas to spend some time at home before coming back this way to work for the Public Service Corporation of New Jersey.—H. F. Frease is working as an assistant in his father's Patent Law office.—Charles Geisinger was planning last June to enter on a six-month training course with the Ohio Injector Co., and then work there installing a planning and production control system.

Ed Goldsmith has been in Europe this Summer and no word has been received as to when he expects to be back. He is traveling through France, Spain, Belgium, Holland, Germany, Switzerland, and Italy and was planning to look up and call on some of the Tech men in these countries.—Red Adams was expecting to do production work for the Vaughan Knitting Company of Pottstown, Pa.—Johnny Ballard wasn't particular as to where he went to get a job and was willing to take one anywhere just so long as there was a good golf course in the vicinity. We believe he is with the Ballard-Martin Electric Ice Company.

Sustaining Members of the Alumni Association

For the Fiscal Year 1923-24 as on September 25, 1923

EDWARD D. ADAMS, '69 FRANCIS H. APPLETON, '71 E. W. ROLLINS, '71 F. A. EMERTON, '72 SAMUEL M. FELTON, '73 FRANCIS H. WILLIAMS, '73 JOHN C. CHASE, '74 E. HOLBROOK, '74 C. W. GOODALE, '75 JOHN R. FREEMAN, '76 JOHN B. HENCK, '76 THEODORE J. LEWIS, '76 CHARLES T. MAIN. '76 GEORGE J. BALDWIN, '77 BELVIN T. WILLISTON, '77 FREDERICK W. WOOD, '77 W. B. ALLBRIGHT, '78 JAMES W. ROLLINS. '78 W. F. M. Goss, '79 GEORGE W. HAMILTON, '79 RICHARD W. LODGE, '79-W. L. BENEDICT. '80 CLARENCE H. JOHNSTON, '80 FRANK H. BRIGGS, '81 G. A. MOWER, '81 HENRY N. SWEET, '81 ARTHUR WINSLOW, '81 WALTER B. SNOW, '82 GEORGE H. CAPEN, '83 F. B. RICHARDS, '84 C. SNELLING ROBINSON, '84 T. W. ROBINSON, '84 ARTHUR D. LITTLE, '85 EVERETT MORSS, '85 FRANK H. PAGE, '85 HENRY P. TALBOT, '85

HIRAM P. MAXIM. '86 EDWARD A. JONES, '87 P. A. Mosman, '87 RICHARD E. SCHMIDT. '87 JOHN L. SHORTALL, '87 F. A. FOOUE. '88 ODIN ROBERTS. '88 JOHN C. RUNKLE, '88 ALFRED N. SAWYER, '88 JOSEPH COOKE SMITH, '88 WILLIAM G. SNOW, '88 CHARLES A. STONE, '88 ZENAS W. BLISS, '89 Welles Bosworth, '89 F. L. DAME, '89 NATHAN DURFEE, '89 E. V. FRENCH, '89 FRANKLIN M. HOBBS, '89 HARRY H. HUNT, '89 JOHN L. MAURAN, '89 F. A. SMYTHE, '89 FRANK W. ATWOOD, '90 THOMAS N. CODMAN, '90 PIERRE S. DUPONT, '90 GEORGE L. GILMORE, '90 GEORGE E. HALE, '90 ALLEN H. ROGERS, '90 J. H. TOWNE, '90 H. M. WAITE, '90 W. R. WHITNEY, '90 CHARLES W. AIKEN, '91 WM. H. BASSETT, '91 WARREN I. BICKFORD, '91 HENRY G. BRADLEE, '91 WILLIAM C. DART, '91

F. C. HOLMES, '91 WILLIAM H. LAWRENCE, '91 A. G. McKenna, '91 WM. I. PALMER, '91 A. FORREST SHATTUCK, '91 CHARLES P. WETHERBEE, '91 HARRY J. CARLSON, '92 SUMNER B. ELY, '92 ALBERT S. HEYWOOD, '92 LEONARD P. METCALF, '92 I. SCOTT PARRISH, '92 DWIGHT P. ROBINSON, '92 A. FARWELL BEMIS, '93 S. P. Bremer, '93 H. N. DAWES, '93 FREDERIC H. FAY, '93 CHARLES F. HOPEWELL, '93 FREDERIC W. LORD, '93 HENRY A. MORSS, 1'93 HOWARD L. ROGERS, '93 G. M. YORKE, '93 W. H. BOVEY, '94 ARTHUR A. CLEMENT, '94 KENNETH F. WOOD, '94 EUGENE H. CLAPP, '95 EDWARD L. HURD, '95 ALFRED P. SLOAN, JR., '95 GERARD SWOPE, '95 STURGIS H. THORNDIKE, '95 JOSEPH E. WALWORTH, '95 FRANK A. BROWNE, '96 W. D. COOLIDGE, '96 EUGENE H. LAWS, '96 JOHN A. ROCKWELL, '96 HENRY H. TOZIER, '96

IRÉN'E DUPONT, '97 ARTHUR T. HOPKINS, '97 JAMES F. McELWAIN. '97 H. A. NOBLE, '97 GEORGE R. WADLEIGH, '97 H. E. Worcester, '97 Joseph Bancroft, '98 Paul F. Johnson, '98 VAN RENSSELAER LANSINGH, '98 HENRY B. NEWHALL, '98 LEWIS T. SEIDENSTICKER, '98 W. LYMAN UNDERWOOD, '98 KARL W. WATERSON, '98 LEWIS EMERY, '99 ARTHUR B. FOOTE, '99 FRANK F. FOWLE, '99 ETHEREDGE WALKER, '99 GEORGE H. MEAD, '00 HENRY C. NORRIS, '00 C. W. KELLOGG, '02 A. S. MORE, '02 ROBERT F. WHITNEY, '02 AUGUSTUS H. EUSTIS, '03 WM. H. EAGER, '04 MERTON L. EMERSON, '04 MRS. STANLEY McCORMICK, '04 HARRY T. ROLLINS, '04 Mrs. Stillman P. Williams, '04 E. BRUCE HILL, '05 EDWIN D. A. FRANK, '06 ALEXANDER MACOMBER, '07 HIRAM E. BEEBE, '10 ORVILLE B. DENISON, '11 D. R. STEVENS, '11 W. W. WARNER, '11

The

Massachusetts Institute of Technology

CAMBRIDGE, MASS.

The Massachusetts Institute of Technology offers Courses, each of four years' duration, in Civil, Mechanical and Electrical Engineering; Naval Architecture and Marine Engineering; Mining Engineering and Metallurgy and Geology and Geological Engineering; Architecture and Architectural Engineering; Chemistry, Chemical Engineering and Electrochemical Engineering; Biology and Public Health and Sanitary Engineering; Physics, General Science and General Engineering; and in Engineering Administration. These Courses lead to the degree of Bachelor of Science.

To be admitted to the first year class, applicants must have attained the age of seventeen years, and must satisfactorily fulfill entrance requirements in Algebra, Plane and Solid Geometry, Trigonometry, Physics, Chemistry, English, History, and French or German and one elective subject. Examinations are required in all subjects except Chemistry, History and the elective, the requirements for which are fulfilled by the presentation of satisfactory certificates. A division of these entrance subjects between different examination periods is permitted.

Entrance examinations are held at the Institute in September. In June, applicants will be examined by the College Entrance Examination Board in Boston, New York, Philadelphia, Chicago and many other cities in America and Europe. A circular stating times and places is issued in advance by the College Board.

Graduates of colleges and scientific schools of collegiate grade, and in general all applicants presenting satisfactory certificates showing work done at another college corresponding to at least one year's work at the Institute, are admitted, without examination, to such advanced standing as is warranted by their previous training.

Graduate courses leading to the degrees of Master of Science, Master in Architecture, Doctor of Philosophy and Doctor of Science are also offered. Special research Laboratories of Physical Chemistry, Applied Chemistry and Science have been established.

PUBLICATIONS

Bulletins of General Information, Courses of Study, Summer Session, Advanced Study and Research, and the report of the President and the Treasurer.

Any of the above-named publications will be mailed free on application

For Bulletins and Information address

MASSACHUSETTS INSTITUTE OF TECHNOLOGY CAMBRIDGE 39, MASS.

